DEPARTMENT OF THE NAVY FY 1997 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES MARCH 1996

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 3

19960503 062

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DEPARTMENT OF THE NAVY

NAVAL AIR SYSTEMS COMMAND

FY 1997 PROCUREMENT PROGRAM

APPROPRIATION: OTHER PROCUREMENT, NAVY BUDGET ACTIVITY: AVIATION BUPPORT EQUIPMENT

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Exhibits P-1 Shopping List Program		
BUDGET JUSTIFICATION SCHEDULES	,	
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alwarmeft Support Equipment37	75	

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UNCLASSIFIED

Department of the Navy

Exhibit P-1 FY 1997 Procurement Program

PROPRIATION: 1810N Other Pro					DATE: 03/06/96
	 		MILLIONS OF DOLLARS		
LINE NO ITEM NOMENCLATURE	IDENT	(DOLLARS) FY 1997 UNIT COST	QUANTITY COST	QUANTITY COST	QUANTITY COST C
BUDGET ACTIVITY 03: Aviation Support Equipment					
Sonobuoys					
125 4005 AN/SSQ-36 (BT)	<		2.3	.2	n 6.
126 4032 AN/SSQ-62 (DICASS)	<		23.8	4.0	22.7 U
127 4038 AN/SSQ-110			37.0	21.4	36.0 U
128 4042 AN/SSQ-86 (DLC)	<		6.		n
129 4045 Signal, Underwater Sound (SUS)	*				1.1 U
Aircraft Support Equipment					
130 4204 Weapon's Range Support Equipment	∢		62.1	47.2	27.8 U
131 4208 Expeditionary Airfields	<		2.5	4.8	1.6 U
132 4214 Aircraft Rearming Equipment	<		8.7	7.3	9.3 U
133 4216 Aircraft Launch & Recovery Equipment	<		35.0	15.4	29.0 U
134 4226 Meteorological Equipment	<		20.9	19.6	17.0 U
135 4242 Other Photographic Equipment	~		86.	7.	U 7.
136 4244 Aviation Life Support	<		12.1	17.2	13.8 U
137 4248 Airborne Mine Countermeasures	<		.3	18.9	13.5 U
138 4255 LAMPS MK III Shipboard Equipment	<		6.1	16.2	15.3 U
139 4256 REWSON Photographic Equipment	4		9.	9.	n 6.
140 4259 Stock Surveillance Equipment	<		1.4	1.5	1.6 U
141 4265 Other Aviation Support Equipment	<		15.0	12.2	U 6.7
142 4271 Safety & Survivability Items				9.8	n
TOTAL Aviation Support Equipment			229.3	197.0	199.1
* ITEMS UNDER \$50,000		UNCLASSIFIED			PAGE N- 10

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		Budget Plan (a	Plan (amounts for Pactions programed)	PROCUREMENT		Obligations	
ent	tion code 17-1810-0-1-051	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	، بد
Pro	Program by activities:						
	Direct program: Ships support equipment	774,051	610,985	868,175	812,422	464,491	735,237
00.0201	Communications and electronics equipment	1,171,866	783,792	865,974	1,238,164	978,180	800,676
00.0301	Aviation support equipment	229,324	197,039	199,105	274,061	165,109	199,985
00.0401	Ordnance support equipment	415,903 83,559	46.442	38.057	121,814	47,493	44,084
00.0601		102,286	96,277	69,153	90,729	91,648	77,428
00.0701	Personnel and command support equipment Spares and repair parts	229,676 261,529	96,196 191,249	208,828	205,532 311,155	136,699	59,884 192,190
00.9101	Total direct program	3,268,194	2,421,431	2,714,195	3,505,242	2,328,467	2,535,483
01.0101 R	Reimbursable program	18,948	36,000	36,000	18,8	3,15	•
10.0001	Total	3,287,142	2,457,431	2,750,195	3,524,062	2,381,619	2,571,483
Fin	Financing:						
	Offsetting collections from: Eaders funds(-)	-1.150	-36.000	-36.000	-1,128	-36.000	-36,000
13.0001	Trust funds(")	-10			14,664		
	ations	-17,788			-17,622		
	Unobligated balance available, start of year: For completion of prior year budget plans				-916,602	-678,768	-754,580
21.4003	Ď,	-92,825 -9,465	-22,300		-92,825	-22,300	
	e, end of year				878.768	754.580	933,292
	quent year	22,300					
39.0001	Budget authority	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195
40.0001	Budget authority: Appropriation	3,290,499		2,714,195	3,290,499	2,464,637	2,714,195
40.3601	Appropriation rescinded (unob bal) Transferred to other accounts (-)	-103,438	-8,600		-103,438	-8,600 -75,269	
42.0001	Transferred from Other accounts	7	505'07		`	505/07	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
43.0001	43.0001 Appropriation (adjusted)	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195

S

Other Procurement, Navy Object Classification (in Thousands of dollars)

Identifi	Identification code 17-1810-0-1-051	1995 actual	1996 est. 1997 est.	1997 est.
125.101	## DO	51,382	39,242	45,252
125.303 126.001 131.001	Purchases goods/services (inter/intra) Fed accounts Purchases from revolving funds Supplies and materials Equipment	1,158,456 904,352	989,796 445,181 854,248	913,506 657,962
199.001		3,505,242	2,328,467	2,535,483
R 231.001	Reimbursable obligations: 231.001 Equipment	18,820	53,152	36,000
299.001	299.001 Total Reimbursable obligations	18,820	53,152	36,000
999.901	999.901 Total obligations	3,524,062	2,381,619	2,571,483

		Pre	Other Procurement, Navy Program and Financing (in Thousands of dollars)	Other Procurement, Navy Inancing (in Thousands	Navy ands of dolla		ON MAN OO		00 MAR 90
			Budg	et Plan (a	Budget Plan (amounts for PROCUREMENT actions programed)	:	; ; ; ; ; ; ; ; ; ; ;	Obligations	
Identifica	Identification code	17-1810-0-1-0	51 1995 actual 1996 est. 1997 est. 1995 actual 1996 est.	actual	1995 actual 1996 est. 1997 est.	1997 est.	1997 est. 1995 actual 1996 est.	1996 est.	1997 est.
Rel	lation of o	Relation of obligations to outlays:							
71.0001 (71.0001 Obligations incurred	incurred					3,519,976	2,345,619	2,535,483
_	Orders on hand, SOY	and, SOY					/71 ' 51 -	200,000	000
72.4001	Obligated b	Obligated balance, start of year					5,620,661	4,6/1,80/	3,655,139
	Orders on hand, EOY	and, EOY					30,569		200 000
	Obligated b	Obligated balance, end of year					-4,671,807	-3,655,/39	-3,189,4/b
	Adjustments	in expired accounts	(net)				-12,067		
78.0001	Adjustments	Adjustments in unexpired accounts			•		-23,412		
		•					1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
90.0001	Outlays (net)	(net)					4,449,793	3,331,118	3,001,746

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1	 	1 1 1 1	1	P-1 Item Nomenclature	Nomenclatu	ıre		
Appropriation/Budget Activity	/ity						P-1 # 125	
Other Procurement, Navy				AN/SSQ-36	AN/SSQ-36 (BT) Sonobuoy	Konqo	NARM #400500	
3 - Aviation Support Equ	Equip - So	Sondonos	1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	PEO(A) PROGRAM	Σ! !
		FY96	FY97	FY98	FY99	FY00	FY01	1
15)				1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
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The FY 95 contract has be	en awarc	been awarded to Hermes for	mes for a	a quantity of 11,982 AN/SSQ-36's	of 11,982	AN/SSQ-3	6's.	
The FY 96 program provides manufacturers.	s for 48	38 AN/SSQ-	for 488 AN/SSQ-36's to be competed among qualified	e competec	among qu	alified		
The FY 97 program provides manufacturers.		for 4,100 AN/SSQ-36's		to be compet	competed among	qualified		

P-1 Shopping List Item No. Page No

1 1 1 1 1 1 1 1		No			U30G	Quantity each)	AI.	OTY -	820			20	23	923		
Date:	 	Subhead		00		nds,	TOTAL.	QTY COST		3,977	123			4,100		Page No
[bit P5]		4)	P-1 # 125	NARM #400500			TOTAT.	COST	174			12	11	197		
(DOD Exhibit P5)	AKDOWN	nclature			Sonobuoy	-1	ч	QTY_		473	15			488		No.
PROCUREMENT, NAVY	COST BREAKDOWN	tem Nome			. !		TOTAL.	COST	2,129			64	91	2,284	21	JL List Item No
OTHER P	5	P-1 I			AN/SSQ-36(BT)	Î		OTY -		11,630	352			11,982		Shopping L
! ! !	i I I I				1		Ę	CODE	A							P-1 Sh
1			Other Procurement, Navy	- Aviation Support Equipment -	syoudones.			ELEMENT OF COST	AN/SSQ-36 w/SLC*	Delivered to Fleet	Lot Acceptance Buoys .	PRODUCTION ENGINEERING	ACCEPTANCE TESTING	TOTAL	* SONORIOV LATINCH CONTAINED	
	1	ppropi	Other	3 - 8	1		COST	CODE	QG001			06830	09850			1

OTHER PROCUREMENT HISTORY & PLINTING COTE PROCUREMENT NAVY PROCUEMENT HISTORY & PLANTING COTE PROCUREMENT, NAVY SONDOWLYS SONDOWLYS SONDOWLYS CON- TRACTOR METHOD CON- TRAC] 	1 					<u>(D</u>)	(DOD Exhibit P5A)	it P5A)	Date:			
HISTORY & FILANNING P-1 Item Nomenclature P-1 Item Nomenclature P-1 Item Nomenclature P-1 Item Nomenclature P-1 # 125 PEO(A) PROGRAM SSQ-36 (BT) Sonobuoy CON- CON- CON- CON- CON- CON- CON- CON-			OTI	HER PROC	UREMENT,	NAVY							
FI Item Nomenclature P-1 # 125 PEO(A) PROGRAM 130G SSQ-36 (BT) Sonobuoy TRACT THOD CON- TRACT THOD CON- DATE OF PUNIT NAWC IN 12/94 1/96 11,982 157.99 YES NO FFP NAWC IN 12/96 10/97 4,100 200.00 YES NO			PROCUREME	NT HISTO	RY & PLAN	NNING	1		1	1 1 1	1	1 1 1	1
P=1 # 125	ropriation/	Budget Acti	vity	P-1 I	tem Nomer	nclature				Subhead	No		
AN/SSQ-36 W/SLC REMENT OF COST RELECTED C/FFP NAWC IN 12/96 10/97 4.100 200.00 YES NOO HENCE:	ner Procuren	nent, Navy						#	5				
Sonobudoys	Aviation Sup	port Equipm	ent-						ROGRAM	N30G			
CON-		Sondonos		AN/SSQ-3	(BT)	Konqouc	1	1	1	1	1	1 1	1
ELEMENT OF COST TRACTOR TYPE AND TYPE EN TYPE T		 	! !	CON-	1		DATE				ARE	ΗΉ	
FY 95			CON-	TRACT			OF			SPECS	SPEC	YES,	
ELEMENT OF COST 4 AND TRACTED AWARD DELIV- FYSCAL YEAR LOCATION TYPE BY DATE ERY REQ? RYSQ-36 W/SLC NOT AN/SSQ-36 W/SLC NOT RYSQ-36 W/SLC NOT RYSG-36 W/SLC RYSG-36 W/SLC			TRACTOR	METHOD	CON-		FIRST			AVAIL	REVI-	WHEN	
FY 95 AN/SSQ-36 W/SLC CANADA FY 96 AN/SSQ-36 W/SLC CANADA FY 96 AN/SSQ-36 W/SLC CANADA FY 96 AN/SSQ-36 W/SLC NOT SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES NO FR 97 AN/SSQ-36 W/SLC SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES NO FRS:	_	IT OF COST	শ্ব	AND	TRACTED	AWARD	DELIV-		UNIT	NOM?	SIONS	AVAIL-	
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AN/SSQ-36 w/SLC HERMES C/FFP NAWC IN 12/94 1/96 11,982 157.99 YES FY 96 AN/SSQ-36 w/SLC NOT SELECTED C/FFP NAWC IN 3/96 3/97 488 356.74 YES AN/SSQ-36 w/SLC NOT SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:													
FY 96 AN/SSQ-36 w/SLC NOT SELECTED C/FFP NAWC IN 3/96 3/97 488 356.74 YES AN/SSQ-36 w/SLC SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:		36 W/SLC	HERMES			12/94	1/96	11,982	157.99	YES	ON		
FY 96 AN/SSQ-36 W/SLC SELECTED C/FFP NAWC IN 3/96 3/97 488 356.74 YES FY 97 AN/SSQ-36 W/SLC SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:			CANADA										
AN/SSQ-36 w/SLC NOT SELECTED C/FFP NAWC IN 3/96 3/97 4488 356.74 YES FY 97 AN/SSQ-36 w/SLC NOT SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:	FY 96												
FY 97 AN/SSQ-36 W/SLC SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:		36 W/SLC	LON										
FY 97 AN/SSQ-36 W/SLC NOT SELECTED C/FFP NAWC IN 12/96 10/97 4,100 200.00 YES KS:)1		SELECTED	C/FFP	NAWC IN	3/96	3/97	488		YES	NO		
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1			PROGRAM	COST BRE	AKDOWN.					
Appro	ı		P-1 1	Item Nomenclature	nclature			Subhead	No.	
Oth	Other Procurement, Navy					P-1 # 12	125			
n m	3 - Aviation Support Equipment -					NARM #40	#400500			
 	Skondonos		AN/SSQ-36(BT)		Sondonos	PEO(A)	PROGRAM	U3QG		1
			! ! ! !		(Total Cost in	Cost in	Thousands,		eal	
			FY-98	98	FY	FY-99	FY-	FY-00	FY-01	
CODE	FI FMENT OF COST	ID	\$ E-C	TOTAL	> E-C	TOTAL	\$HO	TOTAL	>±0	TOTAL
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QG001	AN/SSQ-36 w/SLC*	ď		850		842		836		860
	Delivered to Fleet		3,907		3,766		3,649		3,661	
	Lot Acceptance Buoys		121		116		113		113	
06830	PRODUCTION ENGINEERING			51		51		51		31
	•									
09850	ACCEPTANCE TESTING			55		55	·	54		43
	TOTAL		4,028	1 956	3,882	948	3,762	941	3,774	934
	*SONOBUOY LAUNCH CONTAINER									
l 		P-1 S	Shopping	List Iten	Item No.	 	Page No		1 	1 1

The interview of the continue of the continu	FY 96/97 BUDGET PRODUCTION SCHEDULE	DUCT	SNOI	CHEDUL		P-1 ITEM NOMENCLATURE SONOBUOYS (AN/SSQ-36)	JOYS (#	N/SSQ		PEO(A) PROGRAM	PROG	RAM									- 1				H
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Name	TOTAL							Ц		Н		П			Н		Н			Н				ļ	
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1-8-5 MAXIMUM D +		PR	ODUCTIC	N RATES	RCHD						PROCU	REMEN	TLEAD	TIME			Ì			REM	ARKS				
6.0 0.7 8.1 M46 INTIAL 3 9 12	MANUFACTURER'S NAME AND LOCATION	SUST	1-8-5	MAXIMUM				-			T 0	OR LE	AD TIME	AFTER OCT		MANU. ACTURIN	U	AP 1 C	TAL FER	6 F F	5 PRO 6 PRO 7 PRO	CLAT	(352) (15) (123)		
REORDER (Previous Source)	HERMES CANADA	0.0		1.8	¥ ₩	INTIAL								е .		6			12	Ā	DONE	MONT	HLY		
						REORDER	(Previous	(ecurce)																	
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ITEM NO 125 Page 4

311/244

Exhibit P-21 Production Schedule

												. 0,	SONC	BUO	SONOBUOYS (AN/SS	N/SS	SONOBUOYS (AN/SSQ-36) PEO(A) PROGRAM	3) PE	(A)	PRO	GRA	5					DATE	ш							
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Appropriation/Budget Activity Other Procurement, Navy 3 - Aviation Support Equip - Sonobuoys 3 - Aviation Support Equip - Sonobuoys COST (In Millions) The AN/SSQ-62 (DICASS) Sonobuoy that provides target The AN/SSQ-62 is an ECP to the AN/SSQ-62 incorporating the following changes: (1) Add shallow and deep family of depths, selectable at Electronic Function Select, and (2) remove grey overpack shipping/storage container.	DICASS) Sonobuoy Fry99 Fry90 Fry99 Oy that provides taronic Function Selection Sel	DICASS) Sonobuoy Frygg Fry00 32.2 oy that provides ta conic Function Sele of 22,152 AN/SSQ-6 ed among qualified	OTHER DROCHBEMENT NAVY
DICASS) Sonobuoy FY99 SY90 32.2 Oy that provides ta	DICASS) Sonobuoy FY99 32.2 31.9 oy that provides ta collowing changes: ronic Function Sele	DICASS) Sonobuoy FY99 32.2 31.9 oy that provides ta conic Function Sele ed among qualified	5
DICASS) Sonobuoy FY99 32.2 32.2 oy that provides ta	DICASS) Sonobuoy FY99 32.2 oy that provides taronic Function Selection Se	FY99 FY00 32.2 31.9 oy that provides taronic Function Selection Se	
FY99 FY00 32.2 31.9 oy that provides tallowing changes: ronic Function Sele	FY99 FY00 32.2 31.9 oy that provides ta ronic Function Selection (152,152 AN/SSQ-6)	FY99 FY00 32.2 31.9 oy that provides ta ronic Function Select anong qualified ed among qualified	
FY99 FY00 32.2 31.9 oy that provides ta collowing changes:	FY99 - FY00 - 32.2 31.9 oy that provides to collowing changes: ronic Function Selection Selectio	FY99 - FY00 - 32.2 31.9 oy that provides ta ronic Function Selection of 22,152 AN/SSQ-6; ed among qualified	ner Procurement, navy - Aviation Support Equip - Sonobuoys
32.2 31.9 oy that provides target ollowing changes: ronic Function Select,	oy that provides target ollowing changes: ronic Function Select, of 22,152 AN/SSQ-62C's.	32.2 31.9 oy that provides target collowing changes: ronic Function Select, of 22,152 AN/SSQ-62C's. ed among qualified	FY96
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oy that provides target ollowing changes: ronic Function Select,	oy that provides target ollowing changes: ronic Function Select, of 22,152 AN/SSQ-62C's	oy that provides target ollowing changes: ronic Function Select, of 22,152 AN/SSQ-62C's ed among qualified	
lect,	lect, 62C's	lect, 62C's d	a di
	Sparton for a quantity of 22,152 AN/SSQ-62C's.	parton for a quantity of 22,152 AN/SSQ-62C's. SSQ-62D's to be competed among qualified	SSQ-(dept] tora

P-1 Shopping List Item No. Page No $\frac{126}{1}$

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ppro	Appropriation/Budget Activity	1	PROGRAM	PROGRAM COST BREAKDOWN. P-1 Trem Nomenclature	AKDOWN .		1	Subhead	No	1
Oth	Other Procurement, Navy		·			P-1 # 126	9;			
3	- Aviation Support Equipment -		AN/SSQ-62	2 (DICASS)	S)	NARM # 4	403200			
	skondonos		SONOBUOY	OY			PROGRAM	USQE		1
		i ! !	t i i t		(Total	Cost in	Thousands,		ity each	
			FY-95	5	F	FY-96	FY-	FY-97		
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QF001	AN/SSQ-62 w/SLC*	K		22,130		3,560		21,109		
	Delivered to Fleet		21,640		1,948	,	21,599			
	Lot Acceptance Buoys		512		46		899			
QF830	PRODUCTION ENGINEERING			899		214		599		
QF860	ACCEPTANCE TESTING	15 1501		956		231		966		
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	T O T A L		22, 152	23, 754	1,994	4,005	22,267	22, 704		
	** INCLUDES FUNDING FOR SILVER									
	* SONOBUOY LAUNCH CONTAINER									
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rop	Appropriation/Budget Activity P-1 Item Nomenclature	vity	P-1 I	tem Nome	nclature	 			Subhead	Z		*
er	Other Procurement, Navy						P-1 # 126	9				
via	3-Aviation Support Equipment-	ent-				Н	PEO(A) PF	PROGRAM	U3QF	À.		
	Sondonos		AN/SSQ-62	2 (DICASS)	Sondonos (S	Youd	, I		! ! ! !	1 1 1	! ! !	1
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		CON-	TRACT			OF			SPECS	SPEC	YES,	
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U3QF/ 001	FY 95 AN/SSQ-62C w/SLC*	SPARTON FLORIDA	C/FFP	NAWC IN	2/95	2/96	22,152	973.57	YES	ON		
U3QE/ 001	FY 96 AN/SSQ-62D w/SLC*	NOT	C/FFP	NAWC IN	3/96	3/97	1,994	1,785.51	YES	NO		
U3QE/ 001	FY 97 AN/SSQ-62D w/SLC*	NOT	C/FFP	NAWC IN	12/96	10/97	22,267	948.00	YES	ON.		
MAR.	REMARKS:	: ! !		1		 	! ! !		 	 		1 1 1
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### PROGRAM COST BREAKDOWN - Sub- ### PROGRAM COST BREAKDOWN - Sub- ### ### ### ### ### ### ### ### ### ##						(DOD Exhibit P5)		! ! ! !	Date:	1 1 1 1 1	1 1 1 1 1 1
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TOTAL NAVY ANVASQ-62 (DICASS) ANVASQ-62 (DIC	ppro	priation/Budget Activity	1	FROGRAM	COST BRE	AKDOWN		1			1 1 1 1
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SONOBLOOK Sonoblooks SONOBLOOK From Feb (A) PROCRAM Thousands, From Fr	m	uipment		AN/SSQ-(8)	4	103200			
PRODUCTION ENGINEERING T OT A L L OT A L OT A L L OT A L OT A L L OT A L O	!	skondonos		SONOBL	JOY		PEO(A)	PROGRAM	U3QE		
PRODUCTION ENGINEERING T O T A L T O						(Total	Cost in	Thousand		ity each)	
TOTAL TOTA				FY-9	98	F	66-2	FY-	- 00-	FY-01	01
AN/SSQ-62 w/SLC*	OST		ID		TOTAL		TOTAL		TOTAL		TOTAL
AN/SSQ-62 w/SLC* AN/SSQ-62 w/SLC* Delivered to Fleet Lot Acceptance Buoys Lot Acceptance Buoys ACCEPTANCE TESTING ** ** T O T A L Z0,189 22,930 31,785 32,225 31,240 31 ** INCLUDES FUNDING FOR SILVER ** SONOBUCY LAUNCH CONTAINER	ODE	ELEMENT OF COST	CODE	į		- STY	COST	YTQ	COST	OTY -	COST
AN/SSQ-62 w/SLC* Delivered to Fleet Lot Acceptance Buoys ACCEPTANCE TESTING ** INCLUDES FUNDING FOR SILVER ** SONOBUOY LAUNCH CONTAINER ACUEVACE W/SLC* ACCEPTANCE TESTING ** INCLUDES FUNDING FOR SILVER ** SONOBUOY LAUNCH CONTAINER ACCEPTANCE TESTING T O T A L 20,189 20,381 31,054 30,521 719 719 719 719 719 719 719 7					*		*		*		*
Delivered to Fleet Lot Acceptance Buoys 606 731 719 PRODUCTION ENGINEERING ACCEPTANCE TESTING T O T A L 20,189 22,930 31,785 32,225 31,240 31 ** SONOBUOY LAUNCH CONTAINER	F001		K		20,381		28,643		28,344		23,726
Lot Acceptance Buoys 606 731 719		Delivered to Fleet		19,583		31,054		30,521		23,818	
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ACCEPTANCE TESTING T O T A L 20,189 22,930 31,785 32,225 31,240 31 ** INCLUDES FUNDING FOR SILVER * SONOBUOY LAUNCH CONTAINER	F830				1224		1720		1702		1425
** INCLUDES FUNDING FOR SILVER * SONOBUOY LAUNCH CONTAINER 1325 1862 20,189 22,930 31,785 32,225 31,240 31 ** SONOBUOY LAUNCH CONTAINER											
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	1 1 1 1 1 1 1	! ! ! !	!	P-1 Item Nomenclature	Vomenclati	ire	
Appropriation/Budget Activity	sivity				P-1 # 127		NARM #403800
Other Procurement, Navy	λ.			AN/SSQ-110	10		PEO(A) PROGRAM
3 - Aviation Support	Equip - So	Sonopnoys		(EER) Extended Echo Ranging	nded Echo		Sonobuoy
		FY96		FY98	FY99		FY01
	l t		i i i i	 	1 1	1	
COST (In Millions)	37.0		36.0	36.2	37.8	37.5	36.3
The AN/SSQ-110 is an air-dropped active with the AN/SSQ-77B to perform Extended	r-dropped active perform Extended	active so tended Ec	source buoy to be used in conjunction Echo Ranging (EER) system active sear	to be used (EER) sys	system active	unction ve search.	
The FY 95 contract has	been award	led to Mag.	been awarded to Magnavox for	a quantity	y of 43,99	quantity of 43,956 AN/SSQ-110A's	-110A's.
The FY 96 program provides manufacturers.	for	312 AN/S	23,312 AN/SSQ-110A's to be competed among qualified	to be com	peted amo	ng qualif:	ed.
The FY 97 budget reques manufacturers.	t provides	; for 44,2	provides for 44,248 AN/SSQ-110A's to be competed among qualified	.110A's to	pe combe.	ted among	qualified

P-1 Shopping List Item No. Page No

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Appropri				_	(DOD Exhibit P5)	(CI TTO)		Date:		
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ppropri		1	PROGRAM	PROGRAM COST BREAKDOWN	AKDOWN .					
Other	vity		P-1 Item	Nomencl	ature			Subhead	No.:	
1	Other Procurement, Navy			P-1 # 127		NARM #403800	3800			
3 - AV	Aviation Support Equipment -		AN/SSQ-110	10		PEO(A) PROGRAM	ROGRAM			
1 1 1	Sondonos		(EER) Extended		cho Rang	Echo Ranging Sonobuoy	Konq	U3QK		
					(Total	(Total Cost in	Thousands,		ity each)	
			FY-95	5	FY	FY-96	FY-97	-97		
CODE	FI EMENT OF COST	ID	\$ EC	TOTAL	À E	TOTAL	À E	TOTAL	E	TOTAL
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QK001 A	AN/SSQ-110A	Æ		34,470		19,066		33,655		
	Delivered to Fleet		42,740		22,613		42,921			
	Lot Acceptance Buoys		1,216		669		1,327			
QK830 P	PRODUCTION ENGINEERING			1,035		1,144		798		
QK860 A	ACCEPTANCE TESTING			1,465		1,239		1,508		
				1 1	 	1	1 1	 		
	TOTAL		43,956	36,970	23,312	21,449	44,248	35,961		
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ropr	Appropriation/Budget Activity	PROCUREME vitv	NT HISTO	HISTORY & PLANNING	NNING	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	Subhead	No	 	1
er P	Other Procurement, Navy	1					P-1 # 127	7				
viat	3-Aviation Support Equipment-	ent-	AN/SSQ-110	110			PEO(A) P	PROGRAM	U3QK			
	Sondonos		(EER) Extended		Echo Ran	Ranging So	Sondonoy	1	! ! ! !] 	1 1 1	! ! ! !
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U3QK/ 001	AN/SSQ-110A	MAGNAVOX INDIANA	C/FFP	NAWC IN	.56/9	96/9	43,956	773.32	YES	ON		
,	FY 96											
U3QK/ 7	AN/SSQ-110A NOT	SELECTED	C/FFP	NAWC IN	4/96	4/97	23,312	817.85	YES	NO		
	FY 97											
3QK/	U3QK/ AN/SSQ-110A NOT 001	SELECTED	C/FFP	NAWC IN	12/96	10/97	44,248	760.60	YES	ON		
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# 127 NAPW # 403800 # 127 NARM # 403800 # 127 NARM # 403800 ded Echo Ranging Sonobuoy				 	 	(DOD Exhibit P5)	bit P5)		Date:		
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P-1 Team Nomenclature Subhead No-	!			PROGRAM	COST BRE	AKDOWN					
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(DOD EXHIBIT F40)	1 1				DBUOY	FY00	1	0.0	ustic com nics.
	HEET	omenciacu			AN/SSQ-86 (DLC) SONOBUOY	FY99	; ; ; ; ; ;	0.0	e-way acousti s no avionics
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INT, NAVY	S				1	I		0	onobuoy pu
OTHER PROCUREMENT, NAVY	EM JUSTIFICATION				Skondor	FY96		0.0	ication DLC Sonobuoy submerged submarine.
OTHER	BUDGET ITEM		ivity	ζ.	quip - So	FY95	 	0.0	
			Appropriation/Budget Activity	Other Procurement, Navy	3 - Aviation Support Equip - Sonobuoys		(In Thous)	illions)	The AN/SSQ-86 Down Link between an ASW aircraft
	1 1 1 1 1		propriatio	Other Proc	3 - Aviati		QUANTITY (In Thous)	COST (In Millions)	ne AN/SSQ-6 etween an A

P-1 Shopping List Item No. Page No 128

OTHER PROCURENERS, NAVY Appropriation/Budget Activity Other Procurement, Navy Other Procureme]	 	(DOD Exh	(DOD Exhibit P5)	! ! ! !	Date:	! ! ! ! !	
PROGRAM COST BREAKDONN. The Pril Item Nomenclature Nowenclature P-1 # 128 AN/SSQ-86 (DLC) AN/SSQ-86 W/SLC+ Delivered to Fleet AN/SSQ-86 W/SLC+ Delivered to Fleet AN/SSQ-86 W/SLC+ AN/SS					PROCUREME	'NT', NAV	54				
ent - AN/SSQ-86 (DLC)	1 1 1			PROGRAM	COST BRE	AKDOWN					
Procurement, Navy Processing Print 1280 Processing Process	Appro			P-1	tem Nome	nclatur	1		Subhead	No.:	
AWistion Support Equipment - AWissp-66 (DLC) NARM # 404000 SONOBUOY SONOBUOY SONOBUOY PEOCAN FROGRAM FY-95 FY-96 FY-96 FY-96 FY-96 FY-97 Trouble Troub	oth	er Procurement, Navy					#	128			
SOUCE SOUC		Aviation Support Equipment		AN/SSQ-	36 (DLC)		#	104200			
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TOTAL TOTA					 	(Total	Cost in		•		
AM/SSQ-86 w/SLC+				FY-	95	ſτι	96-X	FY-	-97		
AN/SSQ-86 w/SLC* Delivered to Fleet Lot Acceptance Buoys PRODUCTION ENGINEERING ACCEPTANCE TESTING T O T A L 1,700 ** INCLUDES FUNDING FOR SILVER * SOWOBUOY LAUNCH CONTAINER P-1 Shopping List Item No. Page No	COST	TOOD HO HINAMETER	UI P	> E	TOTAL	\$ E	TOTAL	À E	TOTAL	> EO	TOTAL
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PRODUCTION ENGINEERING ACCEPTANCE TESTING TOTAL ** INCLUDES FUNDING FOR SILVER * SONOBUOY LAUNCH CONTAINER P-1 Shopping List Item No.		Lot Acceptance Buoys		96							
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(DOD Exhibit P5A) Date:	7				P-1 # 128	PEO(A) PROGRAM						OTY -	1,700	i - 	Page No
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		1	PROCUREMENT HISTORY & PLANNING	riation/Budget Activ	Other Procurement, Navy	3-Aviation Support Equipment-	Sonobuoys				ELEMENT OF COST	FISCAL YEAR	FY 95 AN/SSQ-86		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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FY 96/97 BUDGET PRODUCTION SCHEDULE	LONGC	NOI	CHEDUI	m	P-1 ITEN	P-1 ITEM NOMENCLATURE	CLATUR	m										Date								
					SONO	SONOBUOYS (AN/SSQ-86)	(AN/S	SQ-86		PEO(A) PROGRAM	PROG	RAM														
ITEM / MANUFACTURER/			ACCEP.	BAL.				FISC	FISCAL YEAR	œ	8				_				FISC	FISCAL YEAR	¥					
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ITEM NO 128 Page 4

Exhibit P-21 Production Schedule

	1 1 1 1	1 1 1 1 1	1 1 1	1 1 1 1 1 1 1	(DOD Exh	(DOD Exhibit P40) Date:	Date:
	OTHE	OTHER PROCUREMENT, NAVY	ENT, NAVY				
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	! ! ! ! !] 	P-1 Item Nomenclature	 omenclatu	re	P-1 # 129
Appropriation/Budget Activity	tivity						NARM # 400500
Other Procurement, Navy	Λλ						PEO(A) PROGRAM
3 - Aviation Support Equip - Sonobuoys	Equip - So	skonqou		Signal, Underwater Sound (SUS)	Inderwater	Sound (St	Sound (SUS)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY95	FY96	FY97	FY98	FY99	FY00	FY00 FY01
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Signal, Underwater Sound devices are expendable, high energy acoustic sources. The MK-84 is a non-explosive, electro-acoustic device which is launched from aircraft and transmits	d devices	are expenstic devic	dable, hig e which is	th energy a	from airc	sources.	The MK-84 transmits
acoustic tones after water entry. The MK-84 SUS is used for training and exercise signaling	ter entry	. The MK-	84 SUS is	used for	training a	and exerc	ise signaling

The FY 97 program provides for 3,700 SUS MK 84'S.

to submarines.

P-1 Shopping List Item No. Page No

					(DOD Exhibit P5)			Date:		
			OTHER	PROCUREMENT, NAVY	INT, NAV	2				
1			PROGRAM	GRAM COST BREAKDOWN	AKDOWN			1		
Appro	Appropriation/Budget Activity		P-1	Item Nome	nclature			Subhead	No.:	
oth	Other Procurement, Navy					P-1 # 12	129			
3	- Aviation Support Equipment -		SIGNAL,	SIGNAL, UNDERWATER	ER	NARM # 4	404500			
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			 		(Total	(Total Cost in	1 2	ls, Quantity	Ψ	
			FY-95	95	Ęz,	FY-96	FY-97	.97		
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2н003	SIGNAL UNDERWATER SOUND MK-84							978		
	DELIVERED TO FLEET						3607			
	LOT ACCEPTANCE BUOYS						8			
2н830	PRODUCTION ENGINEERING							67		
он860	ACCEPTANCE TESTING							73		
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	TOTAL						3,700	1,118		
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Exhibit P-21 Production Schedule

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Exhibit P-21 Production Schedule

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NAVMAT FORM 7110.1	BUDGET ITEM JUSTIFICATION SHEET	EM JUSTIFI	CATION S	HEET			MARCH 1996	
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE	MENCLATURE					
AVIATION SUPPORT EQUIPMENT		WEAPONS RANG	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130	JIPMENT 43SC, F	-1 # 130			
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1996 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001	FY 2000	. FY 2001	
QUANTITY								
COST (IN MILLIONS)	\$ 62.1	\$ 62.1	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7	

training range systems and range tracking, simulation, and surveillance systems. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, EW emitters/jammers, display consoles, radars, tracking subsystems, control/computation Weapons Impact Scoring Set (WISS) Replacement, Systems Replacement and Modernization (SRAM), Tactical Aircrew Combat Training Systems (TACTS), Communication Central Network Phase II (CCN-II), SOCAL Communications Upgrade and generic systems such as range computer systems, underwater frequency interface control systems, power equipment, sonobouy tracking systems, bottom mounted underwater hydrophone systems, phase shift keying This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the systems, display/debriefing subsystems, processors, HF/VHF/UHF receivers, transmitters/transceivers, multiplexers, intercom circuits, encoding devices, primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, processors, and other specialized equipment.

fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, Justification: Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon the performance of equipment; and, to measure reliability and accuracy of operational weapon systems.

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NAVMAT FORM 7110.1	BUDGET ITEM JUSTIFICATION SHEET	M JUSTIFI	CATION S	HEET			MARCH 1996
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE	MENCLATURE				
AVIATION SUPPORT EQUIPMENT		WEAPONS RANG	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130	JIPMENT 43SC, P	-1 # 130		
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1997 FY 1998 FY 1999 FY 2000	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	62.1 \$ 47.2 \$ 27.8 \$ 26.7 \$ 50.1 \$ 52.6 \$ 48.7	\$ 52.6	\$ 48.7

AIRCREW ELECTRONIC WARFARE TRAINING RANGES (AEWTR):

integrated into the TACTS ranges which are co-located there. The integration allows the TACTS system to provide 36 A/C tracking data to the EW range for The AEWTR provides a simulated hostile EW environment in which aircrews can be trained. The AEWTR consists of operational ranges at NAS Fallon, NV; MCAS Yuma, AZ; and MCAS Cherry Pt, NC and other special purpose training sites; e.g. Whidbey. The Fallon, Cherry Pt, and Yuma EW ranges are being EW emitter pointing and also allows EW debrief through the TACTS debriefing system.

and Control Squadron (MACCS), Light Anti-Aircraft Missile (LAAM) Battalion and Low-Altitude Air Defense (LAAD) units at MCAS Cherry Point into TACTS FY 1995 funding integrated, (with Yuma TACTS), 4 Mobile IR Threat Systems known as the "Avenger". The Avenger system is a vehicle mounted system and the hardware and software necessary to integrate with TACTS. Also, FY 1995 funding provided interfaces for integration of Marine Air Command operated by the USMC units at MCAS Yuma. FY 1995 funding procured 7 Threat Radar Emitter Simulators (TRES) AN/GPQ-11(V)s for MCAS Yuma to enhance target area threat density and diversity.

FY 1996 funding will procure 5 Threat Radar Emitter Simulators (TRES) for MCAS Yuma and the hardware and software necessary to integrate with TACTS.

WEAPONS IMPACT SCORING SET (WISS) REPLACEMENT:

The WISS is an electro-optical scoring system which scores inert and live ordnance weapons delivery at Fleet training ranges. This WISS Replacement Program will provide a complete change-out of existing outdated/obsolete WISS at the FTRs with an improved and logistically supportable system. FY 1995 funding will procure nine WISS (V4) systems. The first system will achieve IOC in September 1996. Installation support required in FY 95 is for site preparation at Camp Lejeune, and Okinawa. FY 1996 funding will procure 15 WISS (V4) systems. Installation support required for FY 96 is for site preparation at MCAS Cherry Point and NAF El Centro.

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BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE	MENCLATURE				
AVIATION SUPPORT EQUIPMENT		WEAPONS RANG	SE SUPPORT EQ	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130			
	FY 1995	FY 1996	FY 1997	FY 1996 FY 1997 FY 1998 FY 1999	666	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 62.1 \$ 47.2 \$ 27.8	\$ 27.8	\$ 26.7	\$ 26.7 \$ 50.1 \$ 52.6 \$ 48.7	\$ 52.6	\$ 48.7

SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM):

Funding for The SRAM program provides for the procurement of numerous minor equipments/instrumentation needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Generally, the receiving activity will accomplish installation of these minor equipments; whereas, the more complex equipments may require installation support from other agencies. installation of minor equipment required in all years at all ranges.

TACTICAL AIRCRÉW COMBAT TRAINING SYSTEM (TACTS):

training missions. Weapons simulations are run by the TACTS in response to aircrew actions. Results are displayed in real-time and recorded for post mission The TACTS was developed in the early 1970's in response to the large Aircrew losses in Vietnam. TACTS tracks aircraft and monitors weapon systems during W0431-AA established a requirement to continue development of new training techniques and capabilities through TACTS upgrades. The USAF has adopted aircrew training system. The latest generation 36 A/C system achieved an initial operating capability at Fallon NV in 1985. Other 36 A/C systems have been the TACTS, renamed the Air Combat Maneuvering Instrumentation (ACMI), and more recently the Air Combat Training System (ACTS), as their standard debrief. The original system was installed at Yuma, AZ and a follow-on system was installed at Oceana, VA.. Navy Decision Coordinating Paper (NDCP) installed at Cherry Point, NC and Beaufort, SC. The Yuma and Oceana systems have also been upgraded to the 36 A/C configuration.

1997 program will replace the Control and Computational Subsystems (CCSs) at Fallon, Cherry Point, Beaufort, and Yuma TACTS. The older computers currently used in the CCSs at these ranges are expensive to operate and maintain and lack the processing capacity required to fully support recent and planned software complex. Also, FY 1996 funding will upgrade TACTS Tracking Instrumentation for Cherry Point to provide coverage of the Camp Lejeune target areas. The FY The FY 1995 program will procure, integrate and install at NAS Fallon/Nellis AFB a microwave link to provide real-time control of exercises at Nellis AFB from Fallon. The FY 1996 program will upgrade the Yuma TACTS. This will improve TACTS tracking of aircraft operating at low altitudes around the existing target using the USN's and USAF's largest and most capable TACTS/ACTS range complexes. Installation support is required in FY-96 for site preparation at NAS NAS Fallon. Threat system video, data, and voice communications will also be carried over the link. This will greatly enhance opportunities for joint training

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AVIATION SUPPORT EQUIPMENT		WEAPONS RANG	SE SUPPORT EQL	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130	-1 # 130		
	FY 1995		FY 1997	FY 1996 FY 1997 FY 1998	FY 1999	FY 2000 FY 200	FY 200
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 62.1 \$ 47.2 \$ 27.8 \$ 26.7 \$ 50.1 \$ 52.6 \$ 48.7	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

SHALLOW WATER RANGE (SW RANGE):

required to preclude the recurring cost of periodic retrieval and maintenance of mobile systems. FY 1997 funds the LANTFLT requirement for the procurement of Statement (MNS) for Shallow Water training instrumentation has been endorsed by both Atlantic and Pacific fleets and signed by N8: Fixed instrumentation is Existing underwater ranges are situated in deep water and cannot provide training in ASW tactics employed in shallow coastal waters. A Mission Needs the initial increment of a 125 square NM shallow water range and range control equipment at Onslow Bay, NC.

COMMUNICATIONS UPGRADE (TWENTYNINE PALMS):

funding will procure eight solar powered communications suites and a backbone microwave link back to BEARMAT for continuous communications with aircraft Certain training sites within the Twentynine Palms' operating area do not have communications with the Twentynine Palms BEARMAT control facility. FY 1997 and ground personnel operating throughout the Twentynine Palms operating area. Installation support for FY97 is for site preparation at Twenty-Nine Palms.

COMMUNICATION CENTRAL NETWORK PHASE II (CCN-II):

CCN-I was funded in FY 1988 to provide digital communication switches to support three Tracking and Control (T&C) rooms at PMRF. CCN-II will complete the systems, modernize and consolidate the FM nets, provide new portable transceivers, upgrade the HF equipment, provide a new LAN and WAN, upgrade the conversion of the PMRF range communications system from analog to digital equipment. The FY 1995 funds will provide new HF antennas, new VHF/UHF communication switch, and upgrade the message center switch.

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NAVMAT FORM 7110.1	BUDGET ITE	I ITEM JUSTIFICATION SHEET	CATION S	HEET			MARCH 1996
BUDGET ACTIVITY 3		P-1 ITEM NOMENCLATURE	AENCLATURE				
AVIATION SUPPORT EQUIPMENT		WEAPONS RANG	SE SUPPORT EQ	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130	-1 # 130		
	FY 1995	FY 1996	FY 1997 FY 1998	FY 1998	FY 1999	FY 2000 FY 2001	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1		\$ 27.8	\$ 26.7	\$ 47.2 \$ 27.8 \$ 26.7 \$ 50.1 \$ 52.6	\$ 52.6	\$ 48.7

PACIFIC MISSILE RANGE FACILITY UPGRADE:

and high performance aircraft; (4) \$1.5M to fund underwater tracking system processor upgrade from an analog to a digital system utilizing naval gunfire support configurations; (2) \$1.0M to replace a launch pad sequencer to provide multiple missile launch capability; (3) \$3.0M to upgrade range airborne targets, missiles, simulations to improve training; (6) \$250K for torpedo weapon recovery boat improvements; (7) \$200K to acquire a periscope buoy for littoral warfare test and FY 1995 funding of \$21.5M will include the following projects: (1) \$2.5M for a range operations control system upgrade and improvements to range standard \$1.0M to acquire a full-scale target boat to support over-the-horizon firings and include provisions for integration of electronic warfare and target electronics imaging improvements; (9) \$1.5M to procure three (3) command and control transmitters; (10) \$4.0M to procure remote launcher support activities; and (11) evaluation and training support; (8) \$2.0M for procurement and integration of a replacement high performance video tracker system including digital visual simulator chassis; (5) \$4.55M to support several electronic warfare improvement projects including integration and workstations for distributed interactive systems to provide a realistic target capability.

procurement of a mobile-periscope buoy; (3) \$.3M for the procurement of air defense system maintenance equipment and (4) \$.9M for the procurement of a FY 1996 funding of \$9.5M will include the following projects: (1) \$6.3M for the procurement of test range site integration equipment; (2) \$2.0M for the computer replacement for the Joint Tactical Information Distribution System (JTIDS)

SOCAL COMM UPGRADE:

The existing data links at the remote training sites on San Clemente Island (SCI) and the range operations center (ROC) at North Island are inadequate to handle all of the data from new instrumentation systems. Planned training range instrumentation cannot be utilized until additional communication capability is provided. FY 1996 funding will add data links between the main microwave site on San Clemente and various remote equipment sites. The expanded capability is required to support OTH-T communications, Large Area Tracking Range (LATR), EW range expansion, and Joint Tactical Combat Training System (JTCTS). It will provide Mt. Thirst to REWS connectivity, North Island connectivity, RF systems upgrade, a LAMPS III Repeater, expanded digital data links between FY 1995 funding provided SOCAL with an upgraded data link between the ROC on North Island and Mt. Thirst on San Clemente Island. North Island and SCI, an HF Upgrade, and a VHF/UHF Upgrade.

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AVIATION SUPPORT EQUIPMENT	WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130	E SUPPORT EQU	IIPMENT 43SC, P	-1 # 130		
FY 1995 FY	FY 1996 FY 1997 FY 1998 FY 1999	FY 1997	FY 1998	FY 1999	FY 2000 FY 2001	FY 2001
QUANTITY						
COST (IN MILLIONS) \$ 62.1 \$ 4	62.1 \$ 47.2 \$ 27.8 \$ 26.7 \$ 50.1 \$ 52.6 \$ 48.7	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

CHERRY POINT INFRASTRUCTURE:

support is required in FY-96 for site preparation at MCB Camp Lejeune, NC. Also, FY 1996 funding will provide communications among the various operating Air/Surface Radar for MCB Camp Lejeune capable of detecting low-flying helicopter, private aircraft, and surface craft to ensure range safety. Installation The FY 1995 funding provided a Range Communication capability (MAEWR ROCC) with ships at sea. FY 1995 funding procured a Low Level areas for exercise control and range safety. Installation support is required in FY 1997 to install consoles, workstations, and communications (UHF/VHF/Intercom) at Camp Lejeune, NC.

TELEMETRY EQUIPMENT:

telemetry stations are based on telemetry requirements established in the early 1970s. Since then, missiles have advanced in sophistication and complexity Consequently, the stations have become increasingly difficult and expensive to maintain and are not suited to handling the new digital TM formats required including a move from analog to digital technology. Prior year funding has provided modest on-going improvements and modernization program to replace The Telemetry Equipment program will upgrade and modernize equipment, inclusive of related target control systems/equipment, at Fleet Telemetry (TM) least reliable equipments and meet the most urgent telemetry requirements for new weapon systems. The only exception being the Puerto Rico Station. stations and the Pacific Missile Range Facility (PMRF). These stations are located in Greece, Puerto Rico, Virginia and Hawaii. Present by new emerging weapon systems.

FY 1995 funding completed upgrade of Oceana TM station.

FY 1996 funding will upgrade tracking, processing, and display elements of Portable Airlaunched Missile Telemetry Acquisition System (PATAS). FY 1997 funding will continue to upgrade the tracking, processing, and display elements of PATAS and upgrade the AFWTF TM station.

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WEAPON SYSTEM COST ANAL	NALYSIS	YSIS EXHIBI	_		(ב- ו וופווועד מסמ)	6		MARCH 1996
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT		P-1 ITEN WEAPON	P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPM	ATURE	P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	5		SUBHEAD #. 43SC
					(Total cost in thousands of dollars)	housands	s of dollars)	
COST	IDENT		FY 1995		FY 1996		FY 1997	
CODE ELEMENT OF COST	CODE	QIIV	TOTAL COST	ΔI	TOTAL COST	ΔII	TOTAL COST	
SC002 AIRCREW EW TRAINING RANGES MAEWR	N/A		[9,254]		[3,188]			
Threat Emitters MACCS (Cherry Point)		-	1,125					
Yuma Threat Emitters Comm System Interface		2 2	6,020	ഗ	3,188			·
AVENGER		4	606				M Pro-	
SC003 WISS REPLACEMENT	N/A	6	3,919	15	8,073			
SC004 SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM)	N/A	N/A	5,292	N/A	5,579	N/A	5,774	
		:	· ·		:	† 		į
Exhibit P-5 Weapon System Cost Analysis	P-1 SHOPP.L	P-1 SHOPP. LIST	PAGE NO.					UNCLASSIFIED

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	NIO SOLICITION IN								
BUDGET AVIATION	BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT		P-1 ITEN WEAPOR	P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPM	ATURE UPPOF	P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	 -		SUBHEAD #. 43SC
						(Total cost in	n thouse	(Total cost in thousands of dollars)	
COST		IDENT		FY 1995		FY 1996		FY 1997	
CODE	ELEMENT OF COST	CODE	QTY.	TOTAL COST	ΩTΛ	TOTAL COST	QTY	TOTAL COST	
SC007	TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS)	N/A		[1,923]		[2,025]			
	Fallon/Nellis Microwave Link		н	1,923					
	Yuma Low Altitude TACTS Tracking				Н	586			
	Cherry Point Upgrade				Н	1,439			
	TACTS Control & Computational Subsystem						4	1,200	
SC012	SW RANGE (LANT)						Н	13,260	
SC018	COMM UPGRADE (TWENTYNINE PALMS)	N/A					N/A	787	
				2732					
SC027	CCN-II		1	6,000					
SC028	PACIFIC MISSILE RANGE FACILITY UPGRADE (PMRF)	N/A	1	21,500	н	9,462			
SC037	SOCAL COMM UPGRADE		N/A	1,000	N/A	5,899			
Exhibit P-	Exhibit P-5 Weapon System Cost Analysis	P-1 SHOPP. L	P-1 SHOPP. LIST	PAGE NO.					UNCLASSIFIED

PROPR	APPROPRIATION: OPN								MARCH 1930
DGET A	BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT		VEAPOR	P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	ATURE UPPOF	P-1 # 130	5		SUBHEAD #. 43SC
						(Total cost in	n thouse	(Total cost in thousands of dollars)	
COST		IDENT		FŸ 1995		FY 1996		FY 1997	
CODE	ELEMENT OF COST	CODE	QTY	TOTAL COST	ΔI	TOTAL COST	ΔI	TOTAL COST	
SC040	CHERRY POINT INFRASTRUCTURE			[1,680]		[719]			
	MAEWR ROCC		н	380					
	Low Alt Tracking MCB Camp Lejeune		ᆏ	1,300					
	Comm Suite				Н	719			
SC601	TELEMETRY		N/A	995	N/A	1,203	N/A	1,000	
SC831	Production Engineering, Other Ranges	N/A	N/A	5,779	N/A	668'9	N/A	3,133	
SC860	Acceptance Test & Evaluation	N/A	N/A	520	N/A	839	N/A	954	
SC971	ILS, Other Ranges	N/A	N/A	2,026	N/A	2,093	N/A	698	,
SC900	Installations of Equip-Non FMP	N/A	N/A	2,223	N/A	1,258	N/A	816	
	TOTAL			62,111		47,237		27,793	
chibit P-5	Exhibit P-5 Weapon System Cost Analysis	P-1 SHOPP. L	P-1 SHOPP. LIST	PAGE NO.					UNCLASSIFIED CLASSIFICATION

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APPROPRIATION							gog)	(DOD EXHIBIT P-5A)		DATE	
OPN		BUDGET PROCUREMENT HISTORY AND PLANNING	JREMEN	IT HISTORY A	ND PL	ANNIN	G			MARCH 1996	96
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	SUPPOR	P-1 # 130 T EQUIPN	ENT			SUBHEAD NO. 43SC	ON.
LINE ITEM/FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	ΔI	UNIT	SPECS ARE SPEC AVAIL NOW? REVISIONS WHEN? REQUIRED?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
SC002 AIRCREW EW											
CHERRY POINT MACCS	1995	NAWC-WD CHINA LAKE, CA	Ϋ́	NAVAIR	12/94	01/97	-	1,125	YES	O Z	N/A
YUMA:	1005		, ,		, c	90,90	١	000	, ,	Ç	Š
	0.66	RIDGECREST, CA	TAY T	NAWC-WD CL, CA	76/24	96/90		0,020	Si L	2	X
	1996		CPAF	NAWC-WD CL, CA	96/20	26/60	ιΩ	*3,188	YES	O _N	N/A
Comm System Interface	1995	CTA RIDGECREST, CA	CPAF	NAWG-WD CL, CA	12/94	96/90	N	*1,200	YES	ON	N/A
Avenger Integration	1995	NAWC-WD CHINA LAKE, CA	Ä.	NAVAIR	12/94	96/90	4	227	YES	ON	N/A
REMARKS:											

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P-1 SHOPP. LIST PAGE NO ITEM NO. 130 10

APPROPRIATION							gog)	(DOD EXHIBIT P-5A)		DATE	
OPN		BUDGET PROCUREMENT HISTORY AND PLANNING	REMEN	T HISTORY A	ND PL	ANNIN	(J			MARCH 1996	9
BUDGET ACTIVITY 3				P-1 ITEM NOMENCLATURE P-1 # 130	LATURE	P-1 # 13(6			SUBHEAD NO.	Ö
AVIATION SUPPORT EQUIPMENT	IENT			WEAPONS RANGE SUPPORT EQUIPMENT	SUPPOR	T EQUIPA	EN			43SC	
INE ITEM/EISCAL VEAR		CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF FIRST	QTY	LIND	SPECS AVAIL NOW?	SPECS ARE SPEC AVAIL NOW? REVISIONS	IF YES, WHEN
		AND LOCATION	& TYPE	ВУ	DATE	DELIVERY		COST	WHEN?	REQUIRED?	AVAIL?
			2		700	90110	o	9 9 9 9	VEG	Ç	4/2
SC003 WISS REPL	1995	NWAD, COHONA, CA	×	NAVAIH	12/34	06/10		6,6	2	2	
	1996	NWAD, CORONA, CA	Α	NAVAIR	02/96	03/97	5	***8,073	YES	9	N/A
SC004 SYS REPL & MOD											
	1995	VARIOUS	VARIOUS	FED IND SUP CTR	*	96/80	N/A	5,292	YES	Q Q	N/A
	1996	VARIOUS	VARIOUS	FED IND SUP CTR	:	96/80	A N	5,579	YES	S S	N/A
	1997	VARIOUS	VARIOUS	FED IND SUP CTR	*	76/80	N/A	5,774	YES	O _Z	N/A
BEMABKS:											

REMARKS:

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* Unit cost varies with Threat Configuration: Total cost shown.

** SRAM consists of approximately 70 projects each FY with award dates starting when funds are released and continuing until 31 MARCH of current FY.

*** Total cost is shown. Unit cost will vary by site, due to unique turnkey installation requirements and range unique configurations.

| P-1 SHOPP. LIST | PAGE NO

ITEM NO. 130

CLASSIFICATION UNCLASSIFIED

APPROPRIATION							gog)	(DOD EXHIBIT P-5A)	5A)	DATE	
NdO		BUDGET PROCU	REMEN	REMENT HISTORY AND PLANNING	AND PL	ANNIN	o			MARCH 1996	96
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT	Į.			P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT	CLATURE E SUPPOR	P-1 # 13	0 FINT			SUBHEAD NO 43SC	NO.
			CONTRACT			DATE OF			SPECS		IF YES,
LINE ITEM/FISCAL YEAR		CONTRACTOR AND LOCATION	METHOD & TYPE	CONTRACTED BY	AWARD	FIRST DELIVERY	ΔŢ	COST	AVAIL NOW? WHEN?	REVISIONS REQUIRED?	WHEN AVAIL?
SC007 TACTS											
FALLON/NELLIS LINK	1995	1995 NWAD, CORONA, CA	X	NAVAIR	12/94	02/97	-	1,923	YES	O _N	N/A
YUMA LOW ALT TACTS	1996	ADTI SAN DIEGO CA	C/FFP	NAWC-AD PX, MD	96/80	01/97	-	586	YES	ON	N/A
CHERRY PT UPGRADE	1996		C/FFP	NAWC-AD PX, MD	03/96	04/97	-	1,439	YES	ON.	N/A
TACTS CCS	1997	CTA	CPAF	NAWC-WD CL, CA	11/96	10/97	4	300	96/60	N/A	N A
SC012 SW RANGE	1997		FPIF	NAVAIR	12/96	12/98	-	13,260	96/90	9	N/A
SC018 COMM UPGRADE TWENTY-NINE PALMS	1997	NWAD, CORONA CA	X	NAVAIR .	12/96	12/98	A/A	787	YES	ON	N/A
SC027 CCN-II	1995	VARIOUS	C/FFP/PO	C/FFP/PO NISE-W S.D., CA	12/94	11/96	-	6,000	YES	ON	N/A
SC028 PMRF UPGRADE	1995 1996	VARIOUS	¥ X	NAVAIR NAVAIR	11/95	03/96		21,500	YES	0 0 0 0	N/A N/A
DD Form 2446-1, JUL 87				P-1 SHOPP. LIST ITEM NO. 130	PAGE NO					UNCLA	UNCLASSIFIED CLASSIFICATION

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AVAIL? WHEN Y Y Y IF YES, Y X Y/N N/A Y Z Z/A SUBHEAD NO. **MARCH 1996** AVAIL NOW? REVISIONS REQUIRED? ARE SPEC 999 9 9 9 9 2 DATE WHEN? SPECS YES YES YES YES YES YES YES (DOD EXHIBIT P-5A) 719 995 1,300 1,000 1,000 5,899 380 COST FIND Z Z Z Z WEAPONS RANGE SUPPORT EQUIPMENT o∏ Z Y N Y Z BUDGET PROCUREMENT HISTORY AND PLANNING P-1 ITEM NOMENCLATURE P-1 # 130 DELIVERY DATE OF FIRST 03/95 02/98 12/96 96/90 76/80 86/90 04/97 02/97 12/96 AWARD 01/95 96/80 02/96 12/94 12/94 12/94 02/96 DATE C/FFP/PO NAWC-AD PAX, MD CONTRACTED NISE-W S.D., CA BY C/FFP/PO NWAD, CA C/FFP/PO NWAD, CA C/FFP/PO NWAD, CA NAVAIR C/FFP/PO NAVAIR CONTRACT C/FFP METHOD & TYPE PX NAWC-AD PAX, MD NISE-W S.D., CA AND LOCATION CONTRACTOR DALLAS, TX ALCALTEL VARIOUS VARIOUS Various Various Various 1996 1995 1996 1997 1995 1995 1996 1995 **AVIATION SUPPORT EQUIPMENT** SC040 CHERRY POINT SC037 SOCAL COMM LINE ITEM/FISCAL YEAR **BUDGET ACTIVITY 3** SC601 TELEMETRY INFRASTRUCTURE **APPROPRIATION** MAEWR ROCC LOW ALT TRK CLASSIFICATION COMM SUITE REMARKS: UPGRADE

UNCLASSIFIED

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ITEM NO. 130

P-1 LINE ITEM # 130 Weapons Range Support Equipment

MODIFICATION INSTALLATION SUMMARY

(TOA, DOLLARS IN MILLIONS)

SYSTEM/MODIFICATION	FY 1995	FY 1996	FY 1997	FY 1998		FY 2000	FY 2001	_
SRAM	0.7	0.7		0.4	9.0	0.5	0.7	4.3
WISS	0.8	0.2		ı		1	1	1.0
LATR	0.7	1		1		ı	ı	0.7
EWROC	0.1	1		1		ı	ı	0.1
LOW LEVEL (CH PT)		0.3		٠				0.3
FALLON/NELLIS LINK	•	0.3		1		1	i	0.2
CH PT UPGRADE	1	1		ı		1	1	0.1
MAEWR EW	1	1		1		6.0	0.7	1.6 1/
TOTAL	2.3*	1.3	0.8	0.4	9.0	1.4*	1.4	8.2

^{*} NUMBERS ARE ROUNDED.

1/-Actual labor costs for installing equipment are budgeted on a turnkey basis with equipment costs. planning only. Based on this, no P-3A exhibits were included in this submission for these items. Budgeted installation amounts shown reflect funding required for site preparation and advanced

P-1#130 Pg. 13A

EXHIBIT P-3N

INDIVIDUAL MODIFICATION

P-1 LINE ITEM # 130 Weapons Range Support Equipment MODIFICATION TITLE: CHERRY POINT UPGRADE

areas, facilities, and instrumentation assets to form an expanded training complex to support NAVAL/JoinT Force Training requirements. Existing training assets proposed to be linked with LWTC include; VACAPES operating areas, Navy Dare DESCRIPTION/JUSTIFICATION: The future Littoral Warfare Training Complex (LWTC) will link existing independent training County Mid-Atlantic EW Range, Cherry Point TACTS, MCOLF Atlantic, MCALF Bogue, Camp Lejeune, Camp Geiger, Camp Davis, DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A MODELS OF SYSTEMS AFFECTED: N/A and MCAS New River.

1.5 PRODUCTION LEADTIME: 13 MOS QTY TO COMP 0.0 0.0 0.0 0.0 0.0 FY01 OTY ADMIN LEADTIME: 3 MOS 0.0 0.0 0.0 0.0 FY98 FY97 QTY \$ 0.0 0.0 1 1.4 1 0.1 Contractor/Field Contact Team QTY \$ 0.0 FY95 & PRIOR 2Q/FY96 INSTALLATION OF MODIFICATION HARDWARE FY96: INSTALLATION KIT NONRECURRING FY 96 EQUIPMENT (1 KITS) TOTAL PROCUREMENT COST FINANCIAL PLAN: (\$ IN MILLIONS) TOTAL INSTALLATION COST ENGINEERING CHANGE ORDERS INSTALLATION KITS (\$000) METHOD OF IMPLEMENTATION: INSTALLED EQUIPMENT TRAINING EQUIPMENT SUPPORT EQUIPMENT TOTAL COST CONTRACT DATE: KIT QUANTITY PROCUREMENT DATA

OUTPUT FY96

2Q/FY97

FY96:

FY 97

INSTALL SCHEDULE:

INPUT

PROD DEL DATE:

EXHIBIT P-3A

-1# 130 Pg. 13B

P-1 LINE ITEM # 130

MODIFICATION TITLE: LARGE AREA TRACKING RANGE Weapons Range Support Equipment

and post exercise debrief for all surface participants and remote land sites. Installation of LATR will LATR will provide air and surface tracking out to a range of 500 nautical miles. It will provide real-time monitoring of the training exercise for the battle group commander MODELS OF SYSTEMS AFFECTED: Mobile Sea Range (MSR), Tactical Aircrew Combat Training System (TACTS) DESCRIPTION/JUSTIFICATION:

take place at SOCAL and VACAPES. Installation support is required in FY-95 to install LATR at SOCAL and VACAPES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

	FY95 & PRIOR	FY96	FY97	FY98	FY99	FY00	FY01	FY02	TO COMP	TOTAL	
FINANCIAL PLAN: (\$ IN MILLIONS)	\$ YTQ	QTY \$	QTY \$	QTY \$	\$ YTQ	QTY \$	QTY \$	QTY	S QTY S	QTY \$	
PROCUREMENT											
KIT OUANTITY											

18.9

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INSTALLATION KITS (\$000)

18.9

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INSTALLATION KIT NONRECURRING

INSTALLED EQUIPMENT

ENGINEERING CHANGE ORDERS

TRAINING EQUIPMENT SUPPORT EQUIPMENT

0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.9 ~ INSTALLATION OF MODIFICATION HARDWARE TOTAL PROCUREMENT COST FY93 EQUIPMENT

0.0 0.7 TOTAL INSTALLATION COST

0.0 2 19.6

19.6

0.0 0.0

0.0 0.0

0.0

SOM 9

ADMIN LEADTIME:

0.0

0.0

0.0

0.0 0.0 PRODUCTION LEADTIME: 29 MOS

18.9

N

Contractor/Field Contact Team 20/FY93 40/FY95 FY 1993:

METHOD OF IMPLEMENTATION:

Contract Date:

TOTAL COST

FY 1993: Production Delivery Date: INSTALLATION SCHEDULE:

FY96 FY95

INPUT

FY93

OUTPUT

2

*- Procured with FY-93 funding.

EXHIBIT P-3A

Pg. 13C P-1# 130

			REGUIL	REMENISSIC	REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES	ALLED NOWOOM	SOWADLES	1	
APPROPRIATION/BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT	ACTIVITY UIPMENT					P-1 ITEM NOME 43SC WEAPONS	ENCLATURE #	P-1 ITEM NOMENCLATURE # 130 43SC WEAPONS RANGE SUPPORT EQUIPMENT P-	P-1
		OTY ON		QTY DUE	PLANNED	PLANNED			
		HAND	QTY	IN W/FY95	BUDGET YEAR	BUDGET YEAR			
	TOTAL I.O.	<u> </u>	z	AND PRIOR	PROCUREMENT	PROCUREMENT		PHASING	
ITEM	ROMNT	IN USE	USE	FUNDS	96	97	BALANCE	RATIONALE	
1. SC001 REWS EWRM	2	0	*1	0	0	0	-		
SC002 AIRCREW EW							_		
2. THREAT EMITTER	146	0	30	19	5	0	\neg	FISC CONSTRAINTS	
3. MACCS	-	0	0	1	0	0	_		
	9	0	0	4	0	0	\neg	FISC CONSTRAINTS	
5. SC003 WISS	24	0	0	9	15	0	0		
6. SC007 FALLON/NELLIS	-	0	0	1	0	0	0		
7. SC007 YUMA LOW ALT	-	0	0	0	1	0	0		
8. SC007 CHERRY PT UPRD	-	0	0	0	1	0	0		
9 TACTS CCS	4	0	0	0	0	4	0		
10 SCO12 SW BANGE	4	0	0	*	0	1	2	FISC CONSTRAINTS	
TEM #1	ITEM #2			ITEM #3		ITEM #4		ITEM #5	
SC001 RANGE EW SIM	SC002 A	SC002 AIRCREW EW		SC002 AIRCR	AIRCREW EW	SC002 AVENGER:	:: 	SC003 WISS:	
EWRM:	THRE	THREAT EMITTERS:	HS:	MACCS:				LANT	10
AFWTE 1	YUMA	21		CHERRY PT.		MCAS YUMA	9	PAC	14
		68		TOTAL	-	TOTAL	9	TOTAL	24
TOTAL	_	49							
	PINECAS	S 146		120					
* 1 R&D FUNDED UNIT									
ITEM #6	ITEM #7			ITEM #8		ITEMS #9		ITEM #10	
SC007 FALLON/NELLIS:	SC007 Y	SC007 YUMA LOW ALT	ALT:	SC007 CHERRY	RY PT	SC007 TACTS	SCS	SC012 SW HANGE:	
						NAS FALLON	-	LANT	
NAS FALLON	MCAS YUMA	UMA	-	MCAS CH PT			-	CAMP LEJ	_
TOTAL		TOTAL	۱ 🕶	TOTAL			-	PAC	
		!				MCAS YUMA	-	PMRF *	
							4	SOCAL	-
								WESTPAC	-1
				,				TOTAL	4
* PMRF FUNDED WITH RDT&E.	DT&E.				P-1 SHOP LIST	PAG	EXHIBIT P-23B	:3B	UNCLASSIFIED
					ITEM NO. 130	14	_		CLASSIFICATION
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CLASSIFICATION			REQUIREM	REMENTS ST	UDY NOT INST	ENTS STUDY NOT INSTALLED NONCONSUMABLES	ISUMABLES	DATE MARCH 1996	CH 1996
APPROPRIATION/BUDGET ACTIVITY	T ACTIVITY	>				P-1 ITEM NOMENCLATURE		# 130	
3 AVIATION SUPPORT EQUIPMENT	EQUIPMEN	L 7				43SC WEAPONS	S RANGE SUF	43SC WEAPONS RANGE SUPPORT EQUIPMENT P-1	
	TOTAL I.O.	AND NOT	VTQ NI	QTY DUE IN W/FY95 AND PRIOR	ED YEAR :MENT		I CM A	PHASING PATIONALE	
IIEM	T CMN	IN USE	a C C	LONDS	S	16	BALAIROE	הא ווסוארב	
1. SC027 CCN-II	-		0	-	0	0	0		
	2		0	-	-	0	0		
3. SC040 CHERRY PT INFR	4	0	0	2	-	0		FISC CONSTRAINTS	
						-			
ITEM #1 SC027 CCN-II:	ITEM #2 SC028 P	ITEM #2 SC028 PMRF UPGRADE:		ITEM #3 SC040 CH PT INFRA:	INFRA:				
PMRF TOTAL 1	1 PMRF 1 TOTAL	OI O		MCAS CH PT MCB LEJEUN TOTAL	— ωl 4			·	
					·				
					P-1 SHOP LIST ITEM NO. 130	PAGE NO. 15	EXHIBIT P-23B		UNCLASSIFIED

UNCLASSIFIED				BUDGET ITEM JE	BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIE	(DOD EXHIBIT P-40) Date MARCH 1996
Appropriation/Budget Activity 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	OTHE NT - AIRCRAFT SU	ER PROCUREMENT, NAV	۷		P-1 Item Nomenci	P-1 ftem Nomenclature P-1 # 131 EXPEDITIONARY AIRFIELD	
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY	_		_			_	
COST (IN MILLIONS):	\$2.5	\$4.8	\$1.6	\$1.4	\$6.2	\$3.0	\$8.0

EXPEDITIONARY AIRFIELDS (EAF)

This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting, and visual landing aids investment items for Naval Aviation Expeditionary Airfields (EAF)

This core funding level directly supports the procurement and fielding of operational expeditionary airfield systems in the three active duty Marine Aircraft Wings and one Reserve Marine Aircraft Wing, testing and training installations, and the contingency assets for use by the Marine Expeditionary Forces during contingency operations.

on inventory shortfalls; a product improvement program to fill or correct known deficiencies; modernizing the EAF equipment to improve maintainability, reliability, and safety-of-flight operations; and to keep pace with new aircraft and aircraft systems. Additionally, equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/Maritime Prepositioning Squadron (RDF/MPS) ships which is a new operational requirement under the Maritime Prepositioning Squadron (EMPS) A total of forty-four (44) mobile arresting gear systems as well as associated equipment and accessories are procured and fielded with these funds. Equipment procurements are based requirement, and the EAF 2000 concept.

The FY 1995 program provided for F-70 Tool Kit service change, production engineering and integrated logistics support for EAF procurement products, and qualification testing and evaluation for the M-29 Arresting Gear. The FY 1996 program provides for service change kit procurements to upgrade the aged M-21 Arresting Gear to a safe condition until the M-31, next generation Marine Corp mobile Arresting Gear, is fully on line, F-70 Tool Kit service changes, Flatrack service changes to accommodate positioning EAF assets on MPS, and production engineering and integrated logistics support for EAF procurement products. The FY 1997 budget request provides for service change kit procurements for Flatracks to accommodate pre-positioning EAF assets on MPS, and production engineering and logistics support for EAF procurement products.

P-1 SHOPPING LIST. PAGE NO. PAGE NO. 1 1 1 1 1 1 1 1 1		l	
ITEM NO. # 131 1	P-1 SHOPPING LIST.	PAGE NO.	
	ITEM NO. # 131	-	UNCLASSIFIED

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			WEAPON SYSTEM COST ANALYSIS			: MARCH 1996
Appropriation/Budget Activity 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	O RCRAFT SUPPO	OTHER PROCUREN PORT EQUIPMENT	PROCUREMENT, NAVY	: EXPEDITIONARY AIRFIELD	e P-1#131 FIELD	: SUBHEAD No. : 43SE
Element of Cost	: Ident: :	FY 1995	: (Total cost	(Total cost in thousands of dollars) FY 1996	FY 1997	
		Otty :	Total Cost: Qty :	Total Cost: Otty	Total Cost: Otty	Total Cost:
		••				
SE010 Service Change Kits			800	2,832 :	1,225 :	
SE026 M-29 Arresting Gear	Α			1,354		
SE800 Integrated Logistic Supp	: N/A ::	•••••	125 :	283:	201 :	
SE830 Production Engineering	N/A		300 :	309 :	134 :	
SE860 Acceptance Test & Eval	WA		1,258 :			
		•• ••				
		•• ••				
TOTAL						• ••
יכואר		• ••				• ••
		••	•••			
		••			•••	•••
		••				
	••••	•••		••••		•••
					• •	
	•••	•••			• ••	
				••		
		••	: P-1 SHOPPING LIST	: Page No. :	Exhibit P-5 Weapon System Cost Analysis	Sost Analysis
	•	•	. Hom No # 424			CLILICON TOTAL

BUDGET ITEM JUSTIFICATION SHEET DATE March 1996	B. P-1 ITEM NOMENCLATURE A/C Rearming Equipment	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001		9.3 10.4 13.2 13.2	In This program funds the procurement of common Armament Support Equipment (ASE) and common Weapons Support Equipment (WSE) under the procurement and inventory control of the NAVAL ICP (Aviation Supply Office (ASO) Philadelphia, and Ships Parts Control Center (SPCC), Mechanicsburg) and the Naval Air Systems Command.	This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) new support equipment (SE); and (c) elimination of the severe shortage of Armament Weapon Support Equipment (AWSE). These shortages prevent support of sustained operations and surge deployment of our CV battle groups.	Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Examples of this equipment are the A/S32K-1D USMC Weapons Loader, Linkless Ammunition Loading System, (LALS II), Common Detent Tester, A/E32K-3 RAMS, MHU-202/M Munitions Trailer, and the LALS Replenisher.	utilized by squadrons and supporting activities to load and service aircraft weapons and guns.	O7 M: 10 F M
BUDGET	TIVITY	FY 1995 FY 1996		8.7 7.3	nds the procurement of common And under the procurement and inven	This budget line supports: (a) initial outfitting for all in-production were (c) elimination of the severe shortage of Armament Weapon Support E of sustained operations and surge deployment of our CV battle groups.	based WSE is utilized by weapons re the A/S32K-1D USMC Weapons/E32K-3 RAMS, MHU-202/M Mu		
UNCLASSIFIED	A. APPROPRIATION / BUDGET ACTIVITY OPN-3 Aviation Support Equipment	FISCAL YEARS	QUANTITY	COST (in millions)	Program Description This program fur Equipment (WSI)	This budget line supports: (a) (c) elimination of the severe s of sustained operations and su	Shipboard/Shore this equipment a Detent Tester, A	Shipboard/Shorebased ASE is	

UNCLASSIFIED	VEAPON	SYSTE	M COST ANA	LYSIS	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	(2)		D. Date	March 199
					B. P-1 Item Nomenclature	nenclatur	9		
OPN-3 Aviation Support Equipment					A/C Rearming Equipment	ng Equipr	nent		
	IDENT		FY 1995		(Total cost in thousands of dollars) FY 1996 FY 1997	usands of	dollars) FV 1997		
Element of Cost	CODE	Oty	Total Cost	Oty	Total Cost	Otty	Total Cost	Otty	Total Cost
SH004 - Shipboard/Shorebased WSE									
A/S32K-1D WEAPONS LOADER	∢	18	1,429						
COMMON DETENT TESTER	Ą	58	192						
A/E32K-3 RAMS	Ą	12	763						
MHU-202/M MUNITIONS TRAILER	∢	81	547						
LALS REPLENISHER	4	36	994						
K4A/13B MUNITION TRAILER	4	0	1,425						
LALS II	¥	8	829	29	5,416	45	7,470		
Sub Total			6,041		5,416		7,470		
SH830 - Production Engineering			2,129		1,563		1,601		
SH860 - Accept Test and Evaluation			481		304		250		
Grand Total			8,651		7,283		9,321		
			P-1 Shopping List Item No. 132	g List 132	Page No.	Exh	Exhibit P-5 Weapon System Cost Analysis	System Co	st Analysis

C. P-1 Item Nomenclature	UNCLASSIFIED		BUDGET HIS	BUDGET HISTORY PLANNING	ING			-	Date.		
ACREANTING Equipment	B. Appropriation / Budget Activi	ity			C. P-1 Item	Nomenclati	ıre				
CONTRACTOR CONTRACTOR CONTRACTED CON	OPN-3 Aviation Support Equi	ipment			A/C Rea	rming Equip	ment				
AUTOPHI		Ĭ	CONTRACT			DATEOF		UNIT	Specs	SPEC	IF YES
Name	LINE ITEM	LOCATION	METHOD	CONTRACTED	AWARD	FIRST	ОТУ	COST	Avail now	REV	WHEN
WPNS LOADER DEVAL CORP FP/Option NAWC AD LKE NJ 1/23/95 7/11 Y 1995 Philadelphia, PA FP/Option NAWC AD LKE NJ 5/16/95 2/11 Y 1995 Philadelphia, PA FP/Option NAWC AD LKE NJ 5/16/95 2/11 Y 1995 San Autonio, TX MIPR/AF KELIY AFB TX 6/19/95 3/295 4/1 Y 1995 R Walton Beach, FL EPLENISHER FP/Option NAWC PT MUGU 8/1/95 9/1 ALS II WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/19/6 9/1 Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/19/6 9/1 Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/19/6 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/19/6 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/19/6 9/1 <td>FISCAL YEAR</td> <td>City, State</td> <td>&TYPE</td> <td>ВУ</td> <td>DATE</td> <td>DELIVERY</td> <td></td> <td>(SK)</td> <td>When?</td> <td>REQ'D?</td> <td>AVAIL?</td>	FISCAL YEAR	City, State	&TYPE	ВУ	DATE	DELIVERY		(SK)	When?	REQ'D?	AVAIL?
V 1995 Philadelphia,PA	A/S32K-1D WPNS LOADER										
V 1995 Philadelphia,PA	FY 1995	DEVAL CORP	FP/Option	NAWC AD LKE NJ	1/23/95	2/1/96	18	79.4	YES	ON ON	
V 1995 Philadelphia,PA Ph/Option NAWC AD LKE NJ 5/16/95 2/11		Philadelphia, PA									
Y 1995 DNR MACHINE FP/Option NAWC AD LKE NJ 5/16/95 2/11	COMMON DET TESTER										
K-3 RAMS Philadelphia,PA Philadelphia,PA Philadelphia,PA Philadelphia,PA Philadelphia,PA MIPR/AF KELLY AFB TX 6/19/95 3/29 MUNIT TRAIL	FY 1995	DNR MACHINE	FP/Option	NAWCAD LKENJ	5/16/95	2/1/96	28	3.3	YES	0 <u>N</u>	
K-3 RAMŞ D&D MACHINE MIPR/AF KELLY AFB TX 6/19/95 3/29		Philadelphia, PA									
Y 1995 D&D MACHINE MIPR/AF KELLY AFB TX 6/19/95 3/29	A/E32K-3 RAMS						1				
Y 1995	FY 1995	D&D MACHINE	MIPR/AF	KELLY AFB TX	96/61/9	3/29/96	12	63.6	YES	ON N	
Y 1995 FF Walton Beach, FL FP/Option NAWC AD LKE NJ 3/2/95 4/1.		San Antonio, TX									
Y 1995 VERVAL ENTERPRISES FP/Option NAWC AD LKE NJ 3/2/95 4/11 EPLENISHER WESTERN DESIGN CORP FP/Option NAWC PT MUGU 8/1/95 9/1 ALS II WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/13/95 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/13/95 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 TIVINGE, CA Invinc., CA Intelligent Corp. PLIST NO. 132 3	MHU-202/M MUNIT TRAIL										
### Fit Walton Beach,FL ###################################	FY 1995	VERVAL ENTERPRISES	FP/Option	NAWC AD LKE NJ	3/2/95	4/1/96	81	6.7	YES	NO	
P-1 Shoping List Page No. 132 Phoping Page No.		Ft Walton Beach, FL									
Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 8/1/95 9/1. ALS II WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Irvine, CA Irvine, CA P-1 Shopping List P-1 Shopping List Page No.	LALS REPLENISHER										
ALS II WESTERN DESIGN CORP Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 12/13/96 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/13/96 9/1 Irvine, CA Irvine, CA FP/Option NAWC PT MUGU 12/13/96 9/1 Item No. 132 3 Item No. 132	FY 1995	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	8/1/95	9/1/6	35	27.6	YES	NO NO	
ALS II		Irvine, CA									
Y 1995 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1996 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 Y 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Irvine, CA Irvine, CA P-1 Shopping List Page No. 3	LALSII					1					
Y 1996 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/23/95 9/1 IV 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Irvine, CA Irvine, CA P-1 Shopping List Page No.	FY 1995	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	96/1/6	2	414.5	YES	0N	
TY 1997 WESTERN DESIGN CORP FP/Option NAWC PT MUGU 12/1/96 9/1 Irvine, CA Irvine, CA P-1 Shopping List Page No.	FY 1996	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	9/1/6	29	186.8	YES	ON ON	
Irvine, CA P-1 Shopping List Page No. Ist No. 132 3	· FY 1997	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/1/96	9/1/97	45	166.0	YES	ON.	
P-1 Shopping List Page No. Ist 3		Irvine, CA									
Page No.	REMARKS:										
, m			P-1 Sh	opping List	Page No.	Exhib	nit P-5A	Procureme	nt History	and Plan	ning
			Item	No. 132	3						Ò

Trem		REQUI	REMENTS	STUDY	NOT INST	REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES	NCONSUM	ABLES	A. Date March 1950
Total IO	Appropriation/Budget Activity OPN-3 Aviation Support Equipment					P-1 Item Non A/C Rearming	nenclature ; Equipment		
Fight Figh			Quantity		Quantity	Qty Due	Planned		
Regint And Not In Use Prior Funds	Item	Total IO	On Hand	ÁŞ.	Due in	In W/FY	Bdgt YR	Balance	
In Use Prior Funds Prior		Reqmt	And Not	In Use	Q/FY 95 &	96 Prog	Procmt		Phasing Rationale
National Detention of the color of the col			In Use		Prior Funds	Fund .	FY 97		
129 0 129 0 0 0 0 0 0 0 0 0	1. A/S32K-1D WEAPONS LOADER	417	0	133	284	0	0	0	
14 0 0 14 0 0	2. COMMON DETENT TESTER	129	0	0	129	0	0	0	
1.5 1.5	3. A/E32K-3 RAMS	14	0	0	14	0	0	0	
107 0 0 35 0 0 0	4. MHU-202/M MUNITIONS TRAILER	704	0	0	414	0	0	290	FUNDING CONSTRAINTS
107 150	5. LALS REPLENISHER	107	0	0	35	0	0	71	FUNDING CONSTRAINTS
TEM# 2	6. LALSII	270	0	0	5	29	45	191	FUNDING CONSTRAINTS
TIEM# 2 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 3 TIEM# 4 TIEM# 5 TIEM# 6 TOTAL TO									
TEM# 2 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 3 TTEM# 4 TTEM# 6 TTEM#									
TIEM# 2									
TTEM# 2				M	EMO ENTRIE	S			
ES 280 CV/CVN 24 MARINES 10 NA F 137 MARINES 36 MPS/RDF 3 TO 417 MAYY SHORE 61 TOTAL 14 TO 5 TOTAL 129 TOTAL 14 6 24 CV/CVN 108 TO F 11 MARINES 57 MAS/RDF SHORE 29 MPS/RDF 72 NAVY SHOF 72 TOTAL Page No. 107 TOTAL 270 P-1 Shopping List Page No. 107 TOTAL 270 P-1 Shopping List A	ITEM# 1	ITEM# 2			ITEM#3			ITEM# 4	
NF 137 MARINES 36 MPS/RDF 3 TO 417 NAVY SHORE 61 TOTAL 129 14 TO 5 TOTAL 129 TOTAL 129 ITEM#		CV/CVN	24		MARINES	10		NAVY SHORE	
ATT MAVY SHORE 61 TOTAL 14 TOTAL 129 TOTAL 129 TOTAL 14 TOTAL 129 TOTAL 129 TOTAL 129 TOTAL 108 TOTAL 108 TOTAL 108 TOTAL 270 TOTAL		MARINES	36		MPS/RDF				
TOTAL 129 TOTAL 129 TOTAL 14 TOTAL 159 TTEM# TTEM# 6 TTEM# TTE		MPS/RDF NAVY SHORE			NAVY SHOR			TOTAL	704
TOTAL 129 TTEM# 6 TTEM# 6 TTEM# 8					TOTAL	14			
TTEM# 6 TTEM# 6 TTEM#		TOTAL	129						
HS 43 CV/CVN 108 RARINES 57 MARINES 57 MARINES 57 MASINES ITEM# 5	ITEM# 6			ITEM #			ITEM#		
ES 24 CV/CVN 108 MARINES 57 SHORE 29 MAS/RDF 33 107 TOTAL 270 P-1 Shopping List Page No. Item No. 132 4									
MARINES S7 MARINES S7 MARINES S7 MPS/RDF 33 MAVY SHOF 72 TOTAL 270 P-1 Shopping List Page No. Item No. 132 4		CV/CVN	108						
107 TOTAL 270 P-1 Shopping List Page No. Item No. 132 4	r c	MARINES	57						
107 TOTAL 270 P-1 Shopping List Page No. Item No. 132 4		MFS/KDF NAVY SHOF	72						
P-1 Shopping List Page No. Item No. 132 4									
Page No.		TOTAL	270						
_					P-1 Sho	pping List	Page No.	Exhibit P-2	3B Not Installed Consumables
					Item	No. 132	4		

UNCLASSIFIED		BUDGE	BUDGET ITEM JUSTIFICATION SHEET	TION SHEET		(DOD EXHIBIT P-40) Date		Date MARCH 1996
Appropriation/Budget Activity OTHER PROCUREMENT, NAVY 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	OTHER PROCURE	MENT, NAVY PORT EQUIPMENT		: P-1 Item Nomenclature AIRCRAFT LAUNCH & RE	nclature ICH & RECOVERY EQI	P-1# 133 AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (ALRE) (Formerly Catapults and Arresting Gear)	33 nerly Catapults a	nd Arresting Gear
	FY 1996	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY		_			_			
COST (IN MILLIONS):	\$35.0	\$15.4	\$29.0	\$29.1	\$39.3	\$43.4	\$37.9	

This program, formerly Catapults/Arresting Gear/VLA supt. (CATS/AG), provides for procurement of major aircraft launch, recovery, and visual landing aids equipment as well as ancillary items equired for installation in aircraft carriers, air capable ships, amphibious ships, and shore stations. Most procurements respond to: (1) urgent fleet problems associated with the operation and maintenance of existing equipment, (2) expanding responsibilities in support of helicopter operations on air capable ships and (3) the demand for increased launch and recovery equipment reliability and capacity.

Shipboard-installed items procured under this program are for operational fleet carriers, air-capable, and amphibious ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities or regular overhauls. Non-FMP installations include minor equipments and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPS) under the direction of the Type Commanders and the Naval Air Warfare Center, Aircraft Division, Lakehurst, NJ. Type Commanders determine shorebased installed item requirements.

The FY 1995 program consists of service change procurements, including safety and reliability service changes for CVN Catapults and Arresting Gears, commercial Optical Landing Aids, and Visual Landing Aids for CV/ACS; PE; ILS and FMP/NFMP Installations for FY 1995 and prior years' procurements, including V/STOLS OLS.

The FY 1996 program consists of service change procurements, Catapult, CV, Arresting Gear, CV, Helicopter Landing Systems (ACS), Visual Landing Aids, CV, Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, ACS; PE; ILS, and FMP/NFMP installations for FY 1996 and prior years' procurements.

The FY 1997 budget request consists of service change procurements, Catapult, CV (Improved C-13-2 MOD Piston and Low Loss Launch Valve), Arresting Gear, CV, Helicopter Landing Systems (HLS), ACS, Visual Landing Aids (CV/ACS), Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, CV, PE; ILS; P-25 Fire Truck and FMP/NFMP Installations for FY 1997 and prior years' procurements.

		WE	APON SYS	WEAPON SYSTEM COST ANALYSIS	LYSIS		(DOD EXHIBIT P-5)	P-5)	Date MARCH 1996
Appropriation/Budget Activity OTHER PROCUREMENT, NAVY 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	IT, NAVY EQUIPMENT				: P-1 Item I : AIRCRAF : (Former!	P-1 Item Nomenclature # AIRCRAFT LAUNCH & RE (Formerly Catapults and /	P-1 Item Nomenclature # 133 AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)	/ EQUIPMENT g Gear)	: SUBHEAD No. : 43SJ
Element of Cost	:Ident : : Cos :	FY 1995		(Total cost in thousands of dollars) FY 1996	ousands of d	lollars) :	FY 1997		
	: : aty	: Total Cost		Qty : Total Cost	Sost	: aty	: Total Cost	: Qty	: Total Cost
			 						•
SJ040 SERVICE CHANGE KITS	 •		8,478:		1,710			6,036:	
Catapults, CV			(1,988):		(923):			(5,636):	
Arresting Gear, (E-28), Shore Arresting Gear, CV			(524)	••••	(18):		••••	 o o	••••
Helicopter Landing Sys. (HLS), ACS	· ··		(099):	•••	0	•••	••	(400):	••
Visual Landing Aids, CV	•••		(920):	••	(10):	•••	••		••
Wind Measuring Inst See (WMIS)			(696):		9 6			 o c	
Catapult Support Equipment, CV			(2,349):	• ••	0				
Integrated Launch & Recovery			••						
i elevision Sys. (ILARTS), CV Visual Landing Aids (VLA), ACS			(814): (205):	••••	(332)		••••		
SJ050 MINOR EQUIPMENT UNDER \$100K	 4		195 :	•• ••	0				
TBD AS/32P-25 FIRE TRUCK					0			: 8,219 :	
SJ800 INTEGRATED LOGISTICS SUPPORT	 		1,162 :	••••	713			563 :	
SJ830 PRODUCTION ENGINEERING			2,248:	•• ••	1,810			1,907	
SJ860 ACCEPTANCE TEST & EVAL			50 :		4				
SJ900 INSTALLATION - NFMP			14,379 :	••••	8,110			: 8,281 :	
SJ910 INSTALLATION - FMP			8,533	••••	3,050			3,875 :	
	 		•• •• •	•••••				•• •• •	
TOTAL			35,015 :		15,397			: 28,975	
			•• ••					•• ••	
in des de la company de la completation de la company de la compa			ď	P-1 Shopping List	Page No.		Exhibit P-5 M	Exhibit P-5 Weapon System Cost Analysis	Cost Analysis

UNCLASSIFIED		WEAPONS	WEAPONS SYSTEM ROCUREMENT HISTORY AND PLANNING	ENT HISTORY	AND PLANNING		(DOD EXHIBIT P-6A)	: Date	MARCH 1996	961
Appropriation/Budget Activ 3 AVIATION SUPPORT EQU	Appropriation/Budget Activity OTHER PROCUREMENT, NAVY 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	EQUIPMENT		HI I AIRC (For	: P1 NO. # 133 : AIRCRAFT LAUNCH & RECOVERY EQUI : (Formerly Catapults and Arresting Gear)	& RECOVE and Arresti	: P1 NO. # 133 : AIRCRAFT LAUNCH & RECOVERY EQUIPMENT : (Formerly Catapults and Arresting Gear)		: SUB : 43S.	: SUBHEAD No. : 43SJ
LINE ITEMIFISCAL YEAR	: CONTRACTOR/LOCATION	: CONTRACT : METHOD : AND TYPE	: CONTRACTED BY	: : AWARD : DATE	: DATE OF : FIRST : DELIVERY	: : QTY :	: UNIT : COST : (\$K)	: SPECS AVAIL : ARE SPEC : NOW : REVISION : WHEN? : REQUIRED	: ARE SPEC : REVISION : REQUIRED	: IF YES : WHEN : AVAIL
TBD AS/32P-26 The Entwistle C FY 1997 Hudson, MA A REMARKS: *Engineering & Manufacturing Development	The Entwistle Company Hudson, MA	Option to EMD * Contract (GPI w/ successive targets)	NAWC AD LKE	96/	10/97	6	146.8	NO - 7/96	NA	NA
			: P-1 Shoppi	: P-1 Shopping List : Item No.: #133		Page No: :	Exhibit P-5A Pro	Exhibit P-5A Procurement History and Planning UNCLASSIFIE	y and Planning UNCLASSIFIED	۵

MODIFICATION INSTALLATION SUMMARY

:H

MARCH 1996

Date:

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear) (TOA, Dollars in Millions)

System/Modification	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TOTAL
SERVICE CHANGES								
CV/CVN	16.7	7.6	7.8	4.2	9.6	9.1	8.5	63.5
Air Capable Ships (ACS)	8.	1.9	3.6	3.2	3.6	2.5	2.6	22.2
Shore	9.0	0.1	0.0	0.1	0.1	0.1	0.2	1.2
LRLS(CV/CVN) 1/ LRLS(Shore) 1/	0.0	0.0	0.0	0.0	1.7	0.5	0.0	1.8
ISIS/ADMACS 1/	0.0	0.0	0.0	0.0	1.2	1.2	3.0	5.4
IFLOLS(CV/CVN) 1/	0.0	0.0	0.0	0.0	9.0	2.5	1.5	6. 4 6. 4
V/STOL OLS	0.8	9.7	8.0	0.0	0.0	0.0	0.0	3.2
Total for SERVICE CHANGES, V/STOL OLS, LRLS, ISIS/ADMACS, IFLOLS	22.9	11.2	12.2	7.7	16.8	15.9	17.2	103.9

^{1/} P-3a exhibits for FY-98 and beyond new starts are not included in this submission.

P-1 LINE ITEM # 133 PAGE NO.: 4

Exhibit P-3N Modification Installation Summary

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

MARCH 1996

Date

Service Changes MODIFICATION TITLE AND NO:

CVs/CVNs MODELS OF SYSTEMS AFFECTED:

Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capacity. DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)		FY95/ PRIOR	£	96	F	97	F	98	7	88	F	8	£	5	COMPLETE	E E	TOTAL	AL
RDT&N	10	aty \$	ŧ	•	ş	•	Ş	•	ş	•	₽ P	•	de de	44	of¢.	•	afy	50
FROCUREMENT Kit Quantity Installation Kits Installation Kit Nonrecurring Equipment Equipment Nonrecurring Equipment Nonrecurring Engineering Change Orders Trainin Fruilment	*	24.7	¥		*	5.2	•	4.01	*	8 "		26		65	•	17.7	•	74.7
Support Equipment Other Interim Contractor Support																		
Installation of Hardware FY-95/Prior	•	50.1	*	7.6	*	8.8	*	1,6	*	4.2	*	3.5	*	5.6	*	2.6		82.0
FY-96					A	1.0	*	0.5	*	1.1	*	70					*	3.0
EV-97							AP	2.1	*	3,5	¥	1.3	*	7 0			*	7.3
FY-98									AP	8.0	*	9.0	*	1.2	*	7 0	*	
EV-89											*	1.0	*	9.0	*	1.6	*	
EV-00												2.3	*	0.7	*	1.7	*	4.7
FY-01															*	8.0	*	
To Complete Equipment															*	0.2	*	0.2
Total Installation Cost	•	* 50.1	*	7.6	*	7.8	*	4.2	٠.	9.6	*	9.7	*	8.5	*	7.2	*	2
Total Procurement Cost		74.8		68		13.0		14.6		11.4		14.5		13.7		24.9		175.9
METHOD OF IMPLEMENTATION:	Open Competition		ADMINISTR	INISTRATIVE LEAD TIME: Various	AD TIME:	Various				PRODUCTION LEAD TIME: Various	ION LEA	D TIME:	Various					
CONTRACT DATES:				4	FY 95:	Various		FY 96:	Various		FY 97:		Various					
DELIVERY DATE:				Œ	FY 95:	Various		FY 96:	Various		FY 97:		Various					
		FY-95/PRIOR	FY-96	9	FY-97		FY-98		FY-99		FY-00		FY-01		TO CO	TO COMPLETE	TOTAL	
INSTALLATION SCHEDULE:		2 3 4	-	2 3 4	1 2	6	1 2	9	1 2	6	1 2	6	1 2	9 4	1 2	4		
INPUT		Various	Various	snc	Various	ş	Various		Various	u	Various		Various	=	Various	u	Various	u
TUPLI		Varions	Varions		Various		Manhan		Varions		Varions	•	Various	•	Varions		Manifeston	

FOOTNOTES:

P-1 LINE ITEM: # 133 PAGE NO.: 5

Exhibit P-3A Individual Modification

^{*} Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment. AP Advance Planning.

Date

(C)

Service Changes MODIFICATION TITLE AND NO:

Air Capable Ships (ACS) MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in MIIIIon)		FY95/ PRIOR	HOR	7	96	ĭ	28	Ŧ	88	Ĕ	8	i.	FY 80	FY	٤	08	COST TO	Ţ	TOTAL
RDT&E		oft,	•	ğ	•	ğ	"	8	•	₹ 8		: ••	s du	g.		\$	5	ş	50
PROCUREMENT Kit Quantity Installation Kits Installation Kit Nonsecuring Equipment Equipment Nonsecuring Engineering Change Orders Data Training Equipment	•	N	20.7	*	6.0	*	4	*	4	*	\$	*	60	*	8.0	*	3.	*	27.1
Support Equipment Other Interim Contractor Support Installation of Hardware *** FY-95/PRIOR			6.9		6. 6.	*	2	*	6.0	*	0.3							*	10.8
FY-96						Æ	2.1	, 0	23	. 0	7:5	* *	0.7	*				* *	6.2
FY-98								ŧ	3	ī		*	9.0	*	1.2	*	0.3	*	2.0
FY-99												*	9.0	*	9.0	*	7	*	2.2
FY-00														*	0.5	*	1.2	*	1.7
FY-01																*	9.0	*	9.0
To Complete Equipment	•																0.2	*	0.2
Total Installation Cost			6.9		6; 6;		3.6	•	3.2	•	3.6	*	2.5	*	2.6	¢	*	*	27.7
Total Procurement Cost		8	27.6		2.2		4.0		2		4.9		3.4		3.4		4.9		54.8
METHOD OF IMPLEMENTATION:	Open Competition			ADMIN	ADMINISTRATIVE LEAD TIME:	ELEAD	TIME:	Various			PRO	DUCTION	PRODUCTION LEAD TIME:	: Various	и				
CONTRACT DATES:				Ī	FY 95:	Various	8	FY 96:	;;	Various		FY 97:	Various						
DELIVERY DATE:					FY 95:	Various	\$	FY 96:	ij	Various		FY 97:	Various						
		FY-95/PRIOR	Son	FY-96		FY-97		FY-98	80	FY-99	66	í.	FY-00	FY-01	2	2	TO COMPLETE	TOTAL	٦
INSTALLATION SCHEDULE:		1 2 3	*	2	6	1 2	6	+	2 3 4	-	2 3	1 -	2 3 4	-	2 3	-	2 3 4		1
TUANI		Various		Various		Various	sn	Various	snc	Var	Various	>	Various	Vari	Various	, §	Various	Various	*
TUTTUO		Various		Various		Various	S	Various	sno	Var	Various	>	Various	Vari	Various	Var	Various	Various	ns

FOOTNOTES:

P-1 LINE ITEM: # 133 PAGE NO.: 6

Exhibit P-3A Individual Modiffication

^{*} Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment. AP Advance Planning.

MARCH 1996 Date

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapuits and Arresting Gear)

Service Changes MODIFICATION TITLE AND NO:

Shore Facilities MODELS OF SYSTEMS AFFECTED: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment and (2) the demand for increased launch and recovery equipment reliability and capacity. DESCRIPTION/JUSTIFICATION:

FINANCIAL PLAN: (\$ in Million)	FY95/	FY95/ PRIOR	¥	8	¥	26	Ŧ	86	E	68	Ŧ	00	Ŧ	2	COM	COST TO	TOTAL	AL
RDT&E	\$	•	\$	•	ğ	-	\$	•	₽ ₽	-	ş	•	₩.	•	ğ	<u>«</u>	ş	*
KIt Quantity KIt Quantity Installation Kits Installation Kit Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	•	23	*	2.	*	*	*	7.0	*	9	*	0.7	*	6 .	*	2.0	*	6.9
Other Other Interim Contractor Support Interim Contractor Support FY-95/PRIOR FY-96 FY-98 FY-98 FY-90	*	82	*	7.	* *	8 8	* *	6.0 6.1 6.1	*	1.0	*	2.	*	0.2	* *		* * * * * * *	0.0000
FY-01 To Complete Equipment Total Installation Cost	*	8.0	*	0.1		0.0		0.1	*	0.1	•	0.1	*	0.2	*	. 2. D	*	0.0
		3.4		0.2				80		07		8.0		0.7		2.1		8.4
METHOD OF IMPLEMENTATION: Open Competition CONTRACT DATES: DELIVERY DATE:	petition	£ £	ADM FY 95: FY 95:	ADMINISTRATIVE LEAD TIME: Various Various	VE LEAD		Various FY 96: FY 96:	Various		PRODUC	TION LEAD FY 97: FY 97:		E: Various Various Various					
	FY-9	FY-95/PRIOR	FY-96	40	FY-97	2	FY-98	80	FY-99		FY-00		FY-01		70 07	TO COMPLETE	TOTAL	
INSTALLATION SCHEDULE:	1 2 Various	6 8	1 2 3 Various	3 4	1 2 3 Various	2 3 4	1 2 3 Various	2 3 4 lous	1 2 3 Various	sus	1 2 3 Various	e s	1 2 Various	5 S	1 2 Various	8 8 8	Various	
TUTPUT	Various	511	Various	alle.	Varione	-	Vari	Various	Varions	-	Various	=	Various	4	Various		Various	44

FOOTNOTES:

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment. AP Advance Planning. @ Less than \$50,000.00.

P-1 LINE ITEM: # 133 PAGE NO.: 7

Exhibit P-3A Individual Modification

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AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

Vertical /Short Take Off and Landing Optical Landing System (VISTOL OLS) MODIFICATION TITLE AND NO:

OPTICAL LANDING AID FOR AMPHIBIOUS ASSAULT SHIPS TO PROVIDE DAYINIGHT ALL WEATHER VISTOL LANDING CAPABILITY. DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES;

FULL SCALE DEVELOPMENT / TESTING TO COMPLETED 2/94. IN PRODUCTION

FINANCIAL PLAN: (\$ in Million)	FY95/ PRIOR	RIOR	FY 96	ی	FY 97	1	Ŧ	88	£	. 86	Ĕ	8	£	5	COST TO COMPLETE	75 TE	TOTAL	占
	ÁĐ.	•	ğ	•	ğ	*	ğ	*	ŧ	•	ğ	•	ğ	*	ğ		ğ	"
RDTEN																		0.0
PROCUREMENT Kit Quantity Installation Kits	65	7.4															თ	4.7
Installation Kit Nonrecurring Logistic Support Foultment		2.4																0.0
Equipment Nonrecurring Engineering Change Orders Data																		
Training Equipment Support Equipment Other	ю	6.0															ю	4.1
Interim Contractor Support Installation of Hardware **																		0.0
FY-35/PRIOR (14 Kits) FY-36 FY-37 FY-38	0	8:0	9	1.6	4	8.0											4	3.2
FY-99 FY-00 FY-01																		0000
To Complete Equipment Total Installation Cost	0	0.8	9	9.1	4	9.0		0.0		0.0		0.0		0.0		0.0	4	3.2
Total Procurement Cost		15.3		3 .		8.0		0.0		0.0		0.0		0.0		0.0		17.7
METHOD OF IMPLEMENTATION:	VOYAGE REPAIR TEAM		ADMINIS	ADMINISTRATIVE LEAD TIME:	LEAD TIM	úi	-	1 MONTH		PRODUCTION LEAD TIME:	TION LEAS) TIME:		8	MONTHS			
CONTRACT DATES:			u.	FY-96: NIA				FY-97: NIA	ď									
DELIVERY DATE:			iL.	FY-96: NIA				FY-97: NIA	d									
	FY-95/PRIOR	FY-96	g	FY-97		FY-38	œ	FY-99	66	FY-00	8	F	FY-01	_	TO COMPLETE	TOTAL	اد	
INSTALLATION SCHEDULE:	1 2 3 4		2 3 4	-	8 3	-	2 3	-	2 3	-	2 3		2 3	٠, ~	1 2 3 4			
INPUT		-	3 3	8												4		
TUTFUT		-	3 3	8	2											4		

P-1 LINE ITEM: # 133 PAGE NO.: 8

Exhibit P-3A Individual Modification

UNCLASSIFIED

OCT: NOV: DEC: JAN: FEB: MAR: APR: MAY: JUN: JUL: ALIG: SEP: CCT: NOV: DEC: JAN: FEB: MAR: APR: MAY: JUN: ALIG: SEP: CCT: NOV: DEC: JAN: FEB: MAR: APR: MAY: JUN: JUL: ALIG: SEP: R SUBHEAD No. : DATE : MARCH 1996 CALENDAR YEAR 1997 PISCAL YEAR 1997 (DOD EXHIBIT P-21) P-1# 133 • ARCRAFT LAUNCH & RECOVERY EQUIPMENT Formerly Cataputts and Arresting Gear) .. AFTER : MANU-: 1 OCT : FACTURING CALENDAR YEAR 1996 PROCUREMENT LEAD TIME : LEAD TIME PRIOR 1 OCT REORDER 1 FISCAL YEAR 1996 .. CALENDAR YEAR 1895 PRODUCTION SCHEDULE FISCAL YEAR 1995 : PRODUCTION RATES
: MAK: REACHED
: SUST : : HAX: REACHED : 5 : 5 :NA Accep : Balance : Prior : Due : To : as of : 10ct : 10ct ARCRAFT SUPPORT EQUIPMENT 3 •• •• ·· .. MAHUFACTURER'S NAME AND LOCATION TBD AS/32P-25 ENTWRTLE, HUDSON MA : TBD AS/32P-25/ENTWISTLE/97 Budget Activity
3 AVATION SUPPORT EQUENCENT - A
COST | RenManufacturer
Code | Procurement Year Appropriation OTHER PROCUREMENT, NAVY 5

Р1 8НОРРИФЦИТ РАФЕ ИО. ПЕМ ИО.: # 133 9

										: MARCH 1996
Appropriation/Budget Activity OTHER PROCUREMENT, 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT	jet Activity 1ENT, 3 AVIATION	SUPPORT EQUIPIN	IENT - AIRCRAI	T SUPPO	RT EQUIPMENT	: P-11 : AIRC : (Fon	: P-1 Item Nomenclature # 133 : AIRCRAFT LAUNCH & RECOVERY EQUIPMENT : (Formerly Catapults and Arresting Gear)	# 133 ECOVERY EQUIF Arresting Gear)	MENT	: SUBHEAD No. : 43SJ
ltem		Total IO Rqm't	: Qty on : Qty : Hand and : In : Not in use : use	d : in se : use	:Qty due in :W/FY 95 & : Prior Funds	: Qty due in : in W/FY 96 : Prog Fund	:Planned Bgt : Yr Procmt : FY 97		BAL	Phasing Rationale
TBD AS/32P-26		. 71	0	0	0		:		: 16	EFFICIENT PRODUCTION & FLEET NEEDS
		••	••							
		••								
				••						
			••							
		••								
			••	••		••	**		••	••
			••		MEMO ENTRIES					•
:TBD AS32P-26 :CVs/CVNs (12 :LHA (6 @ 2) :LHD (6 @ 2) :TRAINERS :TYCOM	8 5 G 4 a									
TOTAL	F									
				:P-1 Sho	:P-1 Shopping List :	: PAGE NO. :				UNCLASSIFIED

	BUDGET ITEM JUSTIFICATION SHEET	M JUSTIFICA	TION SHEET	L	خ	DATE	March 1996	
APPROPRIATION/BUDGET ACTIVITY OPN BA3 - AVIATION SUPPORT EQUIPMENT	DGET ACTIVITY SUPPORT EQUIPM	AENT		P-1 ITEM NOMENCLATURE METEOROI	NCLATURE METEOROLOGICAL EQUIPMENT	AL EQUIPMENT	422600	53SP
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (in millions)	\$20.8	\$19.6	\$17.0	\$19.7	\$25.3	\$24.8	\$25.1	

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS.

weather observations and provide safety of flight information. The procurement has been thoroughly coordinated with the other DOD and civilian agencies. Equipment is This item provides new and replacement meteorological equipment for all Nava/Marine Corps Air Stations and all Navy ships and other activities required to take funded under the following programs:

The Mini-Rawin System (MRS) is a portable commercial off-the-shelf upper air sounding system used to measure pressure, temperature, humidity and wind speed and direction from the surface to the lower stratosphere. \$.8 million in FY-96 (60 units) and \$.9 million in FY-97 (68 units) will support upgrade of existing units to enable use of the Global Positioning System (GPS)

distribution of weather/storm data from National Weather Service, Federal Aviation Administration and Air Force weather radars. The Navy is buying remote user The Next Generation Radar (NEXRAD) Remote includes all the hardware and software required for the request, display, local storage and local annotation and processors, not complete radars. \$1.5 million (5 systems) in FY-95 were budgeted for NEXRAD.

and Marine Corps Air stations and remote sites such as weapon ranges and port facilities. \$3.8 million (19 systems) in FY-95 and \$3.4 million (16 systems) in FY-96 is The Automated Surface Observing System (ASOS) is an automatic system to sense, collect, display and disseminate real time meteorological information at both Navy budgeted for ASOS.

Associated hardware upgrades that are required include CPU cards, RAM memory, clock, BUS, disk storage and disk controllers. TESS Upgrades planned for FY95-97 original equipment for block upgrades and P3I. \$2.9 million in FY-95, \$8.2 million in FY-96 and \$7.1 million in FY-97 will support the TESS evolutionary acquisition include Fleet Numerical Meteorology and Oceanography Center (FNMOC) and Naval Oceanographic Office (NAVO) and the five regional centers at Guam, Pearl Upgrade. TESS software is required to be upgraded to X-Windows with a C2 Secure Operating System as required for cutover of connectivity to DON/DISNET. The Tactical Environmental Support Systems (TESS) Upgrade - Procure terminals, input/output control devices, CPUs and back planes to replace Harbor, Norfolk, Suitland and Rota Spain, and at afloat and ashore sites.

P-1 SHOPPING LIST ITEM NO. 134 PAGE NO. 1

Exhibit P-40 UNCLASSIFIED CLASSIFICATION

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET	-	DATE	March 1996	
(CONTINUATION)				
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE			
OPN BA3 - AVIATION SUPPORT EQUIPMENT	METEOROLOGICAL EQUIPMENT	CAL EQUIPME	INT 53SP	

The Navy Integrated Tactical Environmental Subsystem (NITES) provides tactical environmental support to non-TESS(3) ships and ashore command and control and other facilities as inputs to mission planning systems and tactical decision aids by establishing remote workstations. NITES merges with the TESS Upgrade in FY-96.

Shipboard Meteorological and Oceanographic Observing System (SMOOS) P3I Sensor Upgrades \$.2 million in FY-96 and \$.3 million in FY-97.

Fleet Marine Force Meteorological Equipment - Meteorological/Sensors Equipment are required to outfit Mobile Facilities (MF) Marine Corps Meteorological Support.

Miscellaneous Meteorological Equipment - General Purpose Met Equipment covers unscheduled purchase of items such as: laser recorders, facsimile recorders, runway temperature instruments, special tape recorders, power supplies, printed circuit module, etc.

available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near The Supplemental Weather Radar (SWR) is a state-of-the-art, small, light weight doppler radar system that will be located at sites where NEXRAD coverage is not or moving towards USN and USMC units. \$980K is budgeted in FY-96 and \$2.5 million in FY-97 for SWR.

Training Support - Necessary to train the initial cadre of instructional personnel with the end item.

Installation of Equipment - Installation efforts include plans, site surveys, BESEPS, equipment installation and checkout.

MODIFICATION SUMMARY (\$M)

Listed below are the costs (i.e. hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted:

EQUIPMENT. MRS UPGRADE	. EY95	EY96 1.0	EY9Z 1.0	EY98	FY99	EY00	EY01
ASOS	4.2	3.9	0.3				
TESS UPGRADES	3.6	10.5	9.9	9.6	12.7	9,4	8.4
NITES	9.1						
SMOOS P3I		0.2	0.3	2.7	4.5	2.6	2.4
SUPPLEMENTAL WEATHER RADAR		1.0	2.6				i
MRS/GPS						2.4	42
AN/SMQ-11	0.2					i	!
AN/SMQ-11 UPGRADES				1.6	2.2	5.3	5.5
Total	17.1	16.6	14.1	13.9	19.4	19.7	20.5

P-1 SHOPPING LIST ITEM NO. 134 PAGE NO. 2

UNCLASSIFIED CLASSIFICATION

Exhibit P-40

7

UNCLASSIFIED CLASSIFICATION

	WEAPON SYSTEM COST		ANALYSIS	sis,						
PPROPRIA I - BA2 CC	B. APPROPRIATION/BUDGET ACTIVITY OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPM	QUIPMENT			C. P-1	C. P-1 ITEM NOMENCLATURE METEOROLOGICAL EQUIPMENT	JRE MENT		53SP	
					TOTAL	TOTAL COST IN THOUSANDS OF DOLLARS	S OF DO	ILARS		
TSO2		DENT		FY 95		FY 96		FY 97		
CODE	ELEMENT OF COST		QIV	TOTAL COST	arv	TOTAL COST	aly	TOTAL COST	QIV	TOTAL COST
SP115	MRS UPGRADES	4			8	800	89	925		
	NEXRAD		ည	1,469						
	ASOS		61	3,762	91	3,376				
SP190	TESS UPGRADES	∢ ◊	VAR	2.933	VAR	8,154	VAR	7,070		
	SMOOS P3I			3	VAR	240	VAR	300		
	MET EQUIPMENT	N/A	VAR	2,299	VAR	2,567	VAR	2,578		
	GP EQUIP	A/A	VAR	152	VAR	189	VAR	132		
SP500	SUPPLEMENTAL WEATHER RADAR				2	086	7	2,527		
	TRAINING SUPPORT		VAR	223	VAR	250	VAR	230		
	INSTALL SHORE		VAR	1,773	VAR	1,916	VAR	1,949		
SP777	INSTALL SHIP		VAR	1,435	VAR	1.127	VAR	1,337		
	TOTAL PROGRAM			21,152		669'61		17,048		
A POPULO MAN BY	11111 07			Tall Civida Cua La						

ITEM NO. 134

A NO. 134 PAGE NO.: 3

UNCLASSIFIED

CLASSIFICATION

	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITE	C. P-1 ITEM NOMENCLATURE	ATURE				
PN BA3	OPN BA3 - AVIATION SUPPORT EQUIPMENT					METEOROLC	GICAL	METEOROLOGICAL EQUIPMENT			
		CONTRACTOR	CONTRACT			DATE			SPECS	SPECS	IF YES,
CODE	ELEMENT OF COST FISCAL YEAR	AND	METHOD	CONTRACTED	AWARD	OF FIRST	QIY	UNIT	AVAILABLE	REV	WHEN
SP115 N	MRS UPGRADES		5		4	Treat and		500	NO.	REGUINED	VAILAB
	FY-96	VAISALA, MA	SS/FFP	SPAWAR	Mar-96	96-unf	8	\$13,333	Yes	<u>8</u>	
	FY-97	VAISALA, MA	SS/FFP/OP	SPAWAR	Oct-96	Jan-97	89	\$13,603	Yes	Š	
P120 N	SP120 NEXRAD										
	FY-95	UNISYS, NY	C/FFP/OP	NATWEASERV	Jan-95	Jan-96	5	\$293,800	Yes	N _o	
SP130 ASOS	YSOS										
	FY-95	AAI, MD	C/FFP/OP	NATWEASERV	Jan-95	Aug-95	19	\$198,000	Yes	N _o	
	FY-96	AAI, MD	C/FFP/OP	NATWEASERV	Nov-95	Aug-96	91	\$211,000			
SP195 NITES	AITES										
	FY-95	VARIOUS	C/CPFF/OP		Jan-95	Apr-95	101	\$70,350	. N/A	_S	
SP500 V	WEATHER RADAR			NUSC/NISE WEST							
	FY-96	TBD	C/FFP	SPAWAR	Mar=96	96-unf	2	\$490,000	No	2	
	FY-97	TBD	C/FFP/0P	SPAWAR	Oct-96	Dec-96	7	\$361,000	No	o N	
						_					

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P-1 SHOPPING LIST ITEM NO. 134 PAGE NO. 4

Exhibit P-5A

UNCLASSIFIED CLASSIFICATION

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INSTALLATION SUMMARY (TOA, Dollars in Thousands)

March 19 96

P-1 LINE ITEM NAME: METEOROLOGICAL EQUIPMENT

SUBHEAD: 53SP P-1 LINE ITEM NUMBER: 146

PROGRAM:

System/Modification		FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	
MRS UPGRADES	SHIP		100	75					
ASOS	SHORE	417	496	310					
TESS UPGRADE	SHIP	282 365	1,027	1,337	2,177	2,655	1,639 253	997 678	
NITES	SHIP	1,153 805							
SMOOS P3I	SHIP			-	300	550	450	400	
SUPPLEMENTAL WEATHER RADAR	SHORE		20	70					
MRS/GPS	SHIP						180	305	
AN/SMQ-11	SHORE	186							
AN-SMQ-11 UPGRADES	SHIP				, 089	200	1,115	2,240	
SHIP SUBTOTAL SHORE SUBTOTAL		1,435	1,127 1,916	1,337	2,477	3,405	3,384	3,637 1,199	
TOTAL		3,208	3,043	3,286	3,675	4,646	4,494	4,836	

MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

63SP MINI- RAWIN SYSTEM UPGRADES (SHIP)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SUIRFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSTIONING SYSTEM

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions) ð TOTAL PROCUREMENT COST Installation Kits Nonrecuring Engineering Change Orders Data Training Equipment Inform Confractor Support Installation of Hardware PRIOR YR EQUIP **TOTAL INSTALLATION COST** Equipment Norrecuring Support Equipment Other PROCUREMENT: Installation Kits FY 98 EQUIP FY 99 EQUIP FY 00 EQUIP FY 96 EQUIP FY 95 EQUIP FY 97 EQUIP FY 01 EQUIP PY TO EQUIP Kit Quantity Equipment

FY 1995: ¥ METHOD OF IMPLEMENTATION:

0.5

28

3 MONTHS

PROCUREMENT LEADTIME:

3 MONTHS

ADMINISTRATIVE LEADTIME:

38

Mar-96

FY 1996:

FY 1997.

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28

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CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:

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INSTALLATION SCHEDULE:

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IOIAL ~ FY 92 FY 1997: FY014 4 4 4 FY 96 96-ung FY.00. FY 1996: **8** 7 δ FY 1995:

Exhibit P-3A UNCLASSIFIED

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March 1996

MODFICATION TITE:
MODFLS OF SYSTEMS AFFICTED:
DESCRIPTION/JUSTFICATION:

63SP MINI-RAWIN SYSTEM UPGRADES (SHORE)

THE MIRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMISHY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: 15 in millional

ROT&E	장 전 장 종	EY 95 Ohy \$	EY 96 Gity \$	EY 97 Gity \$	EY 98	EY 92 Gly \$	EY 00 Giv \$	EY 01 Giy \$	Oly S	Iotol Viv	OI I
PROCUREMENT: Kit Guantity Installation Kits Installation Kits Nonecuring Equipment Equipment Nonecuring Equipment Nonecuring Equipment Nonecuring Data Italian Equipment			27 0.4	20 03						47	
Support Equipment Other Other Installation of Hardware PRIOR YR EQUIP			27 0.1	20 0.08							
FY 95 EGUIP FY 96 EGUIP FY 97 EGUIP FY 99 EGUIP FY 90 EGUIP			27 0.1	800						8 23	0.08
FY 01 EQUIP				8						;	1
TOTAL INSTALLATION COST			27 0.1	20 008						47	0 0
METHOD OF IMPLEMENTATION:				ADMINISTRATIVE LEADTIME:	JIME:	3 MONTHS	PROCUREMENT LEADTIME	LE ADTIME:	3 MOR	3 MONTHS	
CONTRACT DATES:	FY 1995:			FY 1996:	76: Mar-96	9		FY 1997:	Oct-%		
DELIVERY DATES:	FY 1995:			FY 1996:	96: Jun-96	9		FY 1997:	Jan-97		
INSTALLATION SCHEDULE:	λd	-	FY 95	4	1 2	FY 96 3 4	-	EY 92	4	-	
INPUT						13 14	ທິ	o o	လလ		
INSTALLATION SCHEDULE:		" -	FY 99 2 3	4	FY 80	3	a -	EY 01 3	4		IOIAL
INPUT											

ITEM NO: 134 PAGE NO: 7

OUTPUT •63 UNITS ARE FOR MOBILE TEAMS AND REQUIRE NO INSTALLATION.

Exhibit P-3A UNCLASSIFIED

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March 1996

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

63SP/SP130 AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) (ASHORE)

ASOS IS AN AUTOMATIC SYSTEM TO SENSE, COLLECT, DISPLAY AND DISSEMINATE REAL TIME METEOROLOGICAL INFORMATION AT BOTH NAVY AND MARINE CORPS AR STATIONS AND REMOTE SITES SUCH AS WEAPON RANGES AND ORT FACILITIES.

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DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

0.4

Exhibit P-3A UNCLASSIFIED

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INPUT

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March 1996

UNCLASSIFIED

MODFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

63SP/SP190 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS) UPGRADE (SHIP)/NITES (SHIP)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUT CONTROL DEVICES, CPUS AND BACK PLANES TO REPLACE. ORIGINAL EQUIPMENT FOR BLOCK UPGRADES, TESS SOFTWARE UPGRADES ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN; (\$ in millors)

	A A	· ·	EY 25	- 8	EY 26 Oh	-	EY 97	<u>a</u>	EX 98	ğ	FY 98	ē ē	EY 00	EY OF	1 s	∑I \$	Iotal Ohy	S	
ROT&E PROCUREMENT: RAI CAUCHTITY IN CAUCHTITY IN CAUCHTITY IN CAUCHTITY IN CAUCHTITY Equipment Equipment Nonsecuring Equipment Nonsecuring Equipment Nonsecuring Equipment Support Indiving Equipment Support Equipment Colliner Col	V AR	9:	VAR	\$: >	VAR 4	V 4.3	VAR 3.5	VAR	4 4 6	V AR	99	V AR	3.9	VAR	3.2		V AR	28.2	
Truent Controlled Supported Francisco Supporte	8 8	0.4				0.1						124	9 9	" "	01		31 28 28 74 203 160 77	04 03 10 13 25 16 10	
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	VAR	1.9	28 C	1.9	VAR 5	10	74 1.3 VAR 48	3 203 8 VAR	3 22 R 68		83	VAR	55	VAR	10		752 VAR	386	
METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	AIT FY 1995: FY 1995:		VAR		₹	MINIST	ADMINISTRATIVE LEADTIME: FY 1996; FY 1996;	ELEADTIME: FY 1996: FY 1996:	VAR	AR .		P800	JREMEN	PROCUREMENT LEADINAE: FY 1997: FY 1997:	ப்	V AR V AR			
INSTALLATION SCHEDULE:	1	¥	i		EY 95	8	4		2	EY 206	4	ı	-	EY 97	33	4	-	2 E	FY 28
INPUT		E E		00	12	22	88	13	14	4 4	<u>4</u> 4		8 8 ,	88	88	9 9	46	3 3	88
INSTALLATION SCHEDULE:			l	EY 82	2	6	4	-	EY 00	3	4	ı	- B	EY 01	6	4		IOIAL	
INPUT				33	8 8	48	33	88	32	36 32	88		9 9	23	23	15 15		752 752	
•																			

*Quantities reflect platforms

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Exhibit P-3A UNCLASSIFIED

47

March 1996

UNCLASSIFIED

MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

53SP/SP190 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS)UPGRADE (SHORE)/NITES (SHORE)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUT CONTROL DEVICES, CPUS AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR BLOCK UPGRADES. TESS SOFTWARE UPGRADES ARE ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN; (\$ in milens)

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* Quantities reflect shore sites.

Exhibit P-3A UNCLASSIFIED

13

March 1996

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

63SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHIP)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACTILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AND BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN; (\$ in millions)

46	PROCURENENT: PROCURENENT: Installation Kits Nonrecuring Feathorn Kits Nonrecuring	Novecuring Change Orders	Iraning Equipment Support Equipment Other International Support Installation of Hardware 43	PRIOR YR EGUIP FY 95 EGUIP FY 97 EGUIP FY 96 EGUIP	TY SO EQUIP FY OF EQUIP FY OF EQUIP FY OF EQUIP	TOTAL INSTALLATION COST 43	METHOD OF IMPLEMENTATION: AIT		DELIVERY DATES: FY 1995:	INSTALLATION SCHEDULE:	INPUT	INSTALLATION SCHEDULE:	INPUT OUTPUT
8	2.5		0.4	4:0		0.4	5.0	ió	;;	Ρ	43		
A A	3		8	88		001	8	Jan-95	Apr-95	,			
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SY YO							A			FY 95	13 13	2	
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CIV \$							ADMINISTRATIVE LEADTIME	FY 1996:	FY 1996:	4	88	4	
N AG									:96:	-		EV 80	
S QIV							I MONTH			FY 26 3		2 3	
\$ 7										4		4	
City \$							PROCLIPEMENT LEADTIME			-		, FY 91	
City \$							FADTIME	FY 1997:	FY 1997:	FY 92 3		01 2 3	
Sive							2 MONTHS			4		4	
DIO AU	<u></u>			8 3		143	143			-		I	
S	4			0.8		9	50			FY 28		IOIAL	143

ITEM NO: 134 PAGE NO: 11

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MODELS OF SYSTEMS AFFICTED: DESCRIPTION/JUSTIFICATION:

53SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHORE)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACTILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION ANDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN; (\$ in millions)

RDT&E PROCUREMENT: Kat Guonitty Installation Kits Equipment Equipment Equipment Equipment Data Training Equipment Training	24 2	2.0 S	FY95	F296.	EY 97 S	以 S S S S S S S S S S S S S S S S S S S	FY S	FY S	FY S	ZI VIO	Idia Siy Siy	
Support Equipment Other Interm Contractor Support Intermal Contractor Support Institution of Hardware PRIOR YR EQUIP FY 95 EQUIP FY 95 EQUIP FY 98 EQUIP FY 99 EQUIP FY 99 EQUIP FY 90 EQUIP	88	37 - 33	0.82 0.02 0.8								60 032 24 08	N -
FY OF EQUIP FY TO EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	23 0	03 38 32 37	0.82								84 1.12	200
METHOD OF IMPLEMENTATION:	AIT			ADMI	ADMINISTRATIVE LEADTIME:	ADTIME: 1 MON TH	FLZ	PROCUREMENT LEADTIME:	I LE ADTIME:	2 MONTHS		7
CONTRACT DATES:	FY 1995:	Jan-95	50		FY	FY 1996:			FY 1997:			
DELIVERY DATES:	FY 1995:	Apr-95	٠,		F	FY 1996;			FY 1997:			
INSTALLATION SCHEDULE:	-1	Α	-	EY 95	4	1 . 2 E	FY 96 3 4	-	EY 92	4	1 2	FY 28
INPUT		23	88	16 13				-				
INSTALLATION SCHEDULE:			EY 88	2 2	4	EY.00	3 4	A -	EY 01 3	4	IOIA	ਰੀ
INPUT											60	

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March 1996

DESCHIPTION/JUSTIFICATION:

SMOOS P31 WILL PROVIDE UPGRADES TO EXISTING SUITES TO ADD SMALLER SENSORS (FY96/97) I.E., RADIOMETERS.

AND OTHER SENSORS THAT COLLECT ATMOSPHERIC PRESSURE. TEMPERATURE. AND WIND DIRECTION DATA: LIDARS (FY98/99); AND TRANSMASONATERS AND OTHER MISCELLANEOUS SENSORS (FY00/01).

FINANCIAL PLAN; (5 in milliona).

FINANCIAL PLAN: (\$ in millions)	ROTAE PROCUREMENT: Not Guscarity Institution Kits Institution Kits Nonecuring Equipment Equipment Nonecuring Equipment Nonecuring Equipment Octors Data Tracking Equipment	Support Equipment Other Interm Contractor Support Installation of Hardware* PRIOR YR EGUIP FY 65 EGUIP FY 65 EGUIP	Processor Processor Processor Processor Processor Processor Processor Processor Processor	TOTAL INSTALLATION COST	TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	CONTRACT DATES:	DELINERY DATES:	INSTALLATION SCHEDULE:	INPUT
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FY 255	, and the state of							- -	
FY 96	VAR 02			1 1	VAR 02			FY 95	
EY 97	VAR 0.3				ADMINISTRATIVE LEADTIME	FY 1996:	FY 1996:	4	
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- d	24 \	0.3	0.3		27 VAI	VAR	VAR	EY 280	
器 基	VAR 3.9	90 22	22 0.6	22 0.6	VAR 45			3	
M FY W		82	82	18	PROCUE				
-	22	9:0	0.5	H	VAR 27 VAR PROCUREMENT LE ADTIME	Œ	ű.	-	
EYBI	8	18 04	18 0.4		VAR 24 EADTIME:	FY 1997:	FY 1997:	EY 27.	
Y 21 20 -					VAR	VAR	VAR	4	
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_	, =		0.6	18	28			EY 28	4 4

Exhibit P-3A UNCLASSIFIED

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*Quantities reflect platforms

INSTALLATION SCHEDULE:

INPUT

FY 98

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63SP MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

SUPPLEMENTAL WEATHER RADAR (SWR) (SHORE)

THE SWIR WILL PROIVDE REAL-TIME SURVEILLANCE AND ADANCE WARNING OF POTENTIALLY SEVERE WEATHER PHENOMENA DEVELOPING NEAR OF MOVING TOWARDS USN AND USMC UNITS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN. (5 to millione)

DOTAE	ROUSE PROCAREMENT: RAT Quantity Installation Kits Equipment Equipment Novecuring Equipment Novecuring Equipment Change Orders Data Induhng Equipment	Support Equipment Other Interm Contractor Support Instalkation of Hardware PRIOR YR EQUIP	FY 95 EQUIP FY 95 EQUIP FY 95 EQUIP FY 95 EQUIP	FY TO EQUIP TOTAL INSTALLATION COST	IOIAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	CONTRACT DATES:	DELIVERY DATES:	INSTALLATION SCHEDULE;	OUIPUT	INSTALLATION SCHEDULE:	INPUT
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Chy S								-		. d	
Siv S	~	2 0.02	2 0.02		1 2 1.02 ADMIN			EY 25		FY 99 3	
EY 92	7 25	7 007	7 007	7 0.07	ADMINISTRATIVE LEADTIME	FY 1996:	FY 1996:	4		4	
Oly FY98					TIMAE .			-		EY 200	
S GIV					OMONTHS	Mar-96	96-unf	EY 94 3		2 3	
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S Caty					PROCE IDENTIFYED	FY 1997:	FY 1997:	EY 92	99	FY Q1	
S Gly						Oct-8	Dec-96	3 . 4		3	
S S					THOP IS		96-	1		I	
Oly Oly	\$ \$		2 002 7 007		9 359	2		-		IOIA	

Exhibit P-3A UNCLASSIFIED

FY 28

ITEM NO: 134 PAGE NO: 14

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

635P/SP050 AN/SMQ-11 (SHORE)

THE SMG-11 RECEIVER/RECORDER RECEIVES OTHER DOD AND NATIONAL HIGH RESOLUTION SATELLIE DATA. THE DATA FROM THIS EQUIPMENT IMPROVES AIRCRAFT AND SHIP SAFETY AND IS A FORCE MULTIFULER FOR WEAPON SYSTEMS.

March 1996

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	i							3	Ş		
	S Y S	S Y YO	S YO	S TATE	Shy S	Shy Sol	Shy S	GIY S	Shy S	S YOS	
RDT&E PROCUREMENT: KIT GLOUNTIN KIT GLOUNTIN Instalation Kits Nonrecuring Equipment Equipment Nonrecuring Engineering Change Orders Dota Training Equipment Surport Faulpment	. 6.0									6.0	
Other Internations Support Installation of Hardware PRIOR YR EQUIP FY 95 EQUIP FY 97 EQUIP FY 98 EQUIP FY 98 EQUIP FY 98 EQUIP FY 98 EQUIP FY 99 EQUIP	40.0	3 0.2								4 0.2	
FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP FY TO EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	1 0.004 4 5.04 Alf	3 0.2		ADMINISTRATIVE LEADTIME:	IIME: 3 MONTHS	35	PROCUREMENT LEADTINE:	LEADTIME:	21 MONTHS	4 0.2	
CONTRACT DATES:	FY 1995:			FY 1996:	; ;			FY 1997:			
DELIVERY DATES:	FY 1995:			FY 1996:	; o	,		FY 1997:			
INSTALLATION SCHEDULE:	ργ	-	EY 95	4	EY	EY 26	-	EY 27 3	4	EY 28	3 4
INPUT			၈	ဇ	٠,						
INSTALLATION SCHEDULE:		- E	EY 92 3	4	EY 00	3	<u>a</u> -	EY 01 2 3	4	IOIAL	
INPUT OUTPUT							-			ব ব	

Exhibit P-3A UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION

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o w a < > 0 3 6 11 7 2 4 0 63 > z 9 4 CALENDAR YEAR SUBHEAD NO. 3 < > March 1996 유 3 10 3 FISCAL YEAR 3 3 < C 2 2 10 DATE 2 ž 7 4 Z 200 <u>а</u> ш о NO > 0 60 2 (DOD EXHIBIT P-21A) 00-V 3 2 3 7 4 7 J 0 2 CALENDAR YEAR 7 2 4 2 4 96 7 J Z 9 5 **3** < > 1 REMARKS 2. < a E 53SP FISCAL YEAR 3 3 < 4 = w w a 3 3 ~ < z 3 tito a w o P-1 ITEM NOMENCLATURE K z 0 > 3 0 0 D PROCUREMENT LEAD TIME 3 8 d. 3 . u . 17 AK < ⊃ 0 1 95 CALENDAR YEAR PRODUCTION SCHEDULE -7 ~ D 4 17 4 7 D Z 17 ¥ **3** < > 9 7 < a E FISCAL YEAR 1 **3** < C 3 . . . 3 7 4 Z 4 NOV DAG a w o z 0 > 8 0 0 -PAR OF 1:0ct 0 2 5 2 ō 5 ACCEP PROC 5 2 88 <u></u> 27 APPROPRATION/BUDGET ACTIVITY
METEOROLOGICAL EQUIPMENT 282 8 8 5 જ 88 TEM/MANUFACTURER SP500 WEATHER RADAR MRS UPGRADES ASOS SP195 NITES Valed SP130 SP115 CODE

	PRODUCTION SCHEDULE	SCHEDL	31	REACHED
NUFACTURER'S NAME & LOCATION	SUST.	:	MAX	â
iaka, MA	10		10	

CIR. ADMR IN ILLAD BIME IN ILLAD BI MONTH

P-1 SHOPPING LIST ITEM NO. 134 PAGE NO. 16

CLASSIFICATION UNCLASSIFIED

NAVMAI FORM 7110/4 (REVISED 11/77)

UNCLASSIFIED CLASSIFICATION

SP126 NEXRAD NE	ED NONCONS GUANIITY ON HAND & NOT IN USE 6	GUANTITY IN USE 10 41 41 59	TEM NC Y DUE FY 95 D UNDS	Mar METEOROLOGICAL EQUIPMENT		March 1996		
MENT UPGRAD		GUANTITY IN USE 41 41 59	C. P-1 ITEM NO GUANTITY DUE IN WITH FY 95 AND PRIOR FUNDS	METEOROLO				
MRS UPGRADES NEXRAD ASOS NITES WEATHER RADAR 1 SP115 MRS UPGRAD		All 204		METEUROLL	TOTAL PORCE	TIALL		ç
MRS UPGRADES NEXRAD ASOS NITES WEATHER RADAR 1 SPI15 MRS UPGRAD cation qty hull/location		69 204			JUICAL ECOIPM	ENI	decc	7
MRS UPGRADES NEXRAD ASOS NITES WEATHER RADAR 1 SP115 MRS UPGRADES cation aty hull/location	0 0	59 204		PLANNED BUDGET YEAR (FY96)	BUDGET YEAR (FY97)	BALANCE	PHASING	
ASOS NITES WEATHER RADAR 1 SP115 MRS UPGRADES cation affy hull/location	0 %	59 204		99	<u> </u>		Complete	
MITES WEATHER RADAR 1 SP115 MRS UPGRADES cation qfy hull/location	•	204	က			_	Complete	
WEATHER RADAR Sp115 MRS UPGRADES cation ath hull/location		204	4	16			Complete	
WEATHER RADAR							Complete	
MRS UPGRADES				. 2	7		Complete	
#1 SP115 MRS UPGRADES		MEMO ENTERED	TEPED					
serion afty hull/location	0: -	MEMO EIN	LENED			00100	3034	
SHIP SHORE 47 MOBILE TEAMS 53	hull/location NAS/NAVSTA	97120 947 44	NEXIAD hull/location	Ąb	null/location NAS/NAVSIA	945 467 85	ASOS hull/location	Q
CV/CVN, LHA								
128 TOTAL I/O 128	<u> </u>		TOTAL I/O	4			TOTAL I/O	85
iTEM #4 SP195 NITES hull/location qty hull/location qty	hull/location	SP500 qfy	WEATHER RADAR hull/location	R qfy	ITEM #6 hull/location	Ąb	hull/location	dβ
SHORE 36 AD, AOE, ARS. LPD, LSD, CV.CVIV, LHA, MCM, MHC, LHD, LPH, AGF, SSN/SSBN LCC, AO, PC LCC, AO, PC LCC, AO, PC								
DD/DDG, FFG TOTAL I/O 204			TOTAL I/O	6			TOTAL I/O	0
DD FORM 2447-1, JUN 86			P-1 SHOPPING LIST ITEM NO. 134 PA	IST PAGE NO. 17			Exh UNCLASSIFIED	Exhibit P-23B

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		OTHER	OTHER PROCUREMENT, NAVY	T, NAVY		(DOD EXHIBIT P-40)	(0)	DATE
NAVMAT 7110.1		BUDGET IT	BUDGET ITEM JUSTIFICATION SHEET	TION SHEET				Mar-96
BUDGET ACTIVITY 3- AVIATION SUPPORT	ORT		P-1 ITEM NOMENCLATURE	ENCLATURE				SUBHEAD
EQUIPMENT - A/C SUPPORT EQUIPMENT	ENT		OTHER PHOTOGRAPHIC EQUIPMENT	OGRAPHIC EQ	UIPMENT			Y3SX
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (in millions)	0.8	0.7	0.7	8.0	1.0	1.0	0.1	

The Naval Air Systems Command is tasked to fund transition of CV photographic labs from traditional film technology to digital imaging technology, Carrier Intelligence Center (CVIC) support (Bomb Damage Assessment (BDA) and target imagery), incidents and accidents at sea, medical media, CNO Memo Ser 09B/2U2501983 of 23 Oct 92 applies. The CV main photographic lab supports the full visual imaging program affoat to include: copy and reproduction, investigation, aerial and surface surveillance, combat camera, safety, training and Public Affairs Office (PAO)

with the new electronic media. Hard copy imagery is required in the documentation of real world events (drug interdiction program, humanitarian relief Military Command Center and the White House. Hard copy photographs are used in the decision making process by the Fleet and Battle Group Electronic/digital imagery acquisition media is rapidly expanding (ATARS, TAMPS, JSIPS). It is imperative the CV photo lab be able to interface efforts, shipboard and flight operational documentation). This imagery is used at all levels within DoD including CNO SECNAV, JCS, National Commanders and directly impacts the overall Navy mission.

traditional photographic processes. Electronic imaging is less manpower intensive and requires less maintenance and overall support resources Digital technology will generate less environmentally damaging effluents, and have no impact on shipboard water consumption currently use in than traditional mechanical hardware. In order to fully utilize the film technology employed on CV's, a two phase transition plan will be implemented. An interim photo lab will be installed to interface with existing film technology which will allow the CV to maintain 100% mission capability until final digital installation. Installations of the interim systems have begun in FY 94, to completed in FY 95. LANT AND PAC deployment schedules and pier-side availability determine the installation schedule. Complete digital capability will commence in late FY 95/early FY 96, to be completed in FY 01.

digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, equipments/software required to tie Phase I and Phase II labs together. Phase I equipments were funded in FY 95 and prior, Phase II will be funded in Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous smal =Y 95 through FY 01

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	OTHER PROCUREMENT, NAVY	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	YSIS EXHIBI	IT (P-5)				Mar-96
BUDGET AC	BUDGET ACTIVITY 3 - AVIATION SUPPORT		P-1 NOMENCLATURE	P-1 NOMENCLATURE	HIDMENT			SUBHEAD
COST	- AC COLLON EQUIPMENT	IDENIT	(TOTAL CO	(TOTAL COST IN THOUSANDS OF DOLLARS)	DS OF DOL	LARS)		
CODE	ELEMENT OF COST	CODE	FY	FY 1995	FY	FY 1996		FY 1997
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST
		•		•		707		000
SXOOS	PHOTO EQUIPMENT UNDER \$100K	∢		5		13/		2
SX019	HIGH CAPACITY DIGITAL COLOR PRINTER	4		0	2	132	7	136
SX020	ELECTRONIC WORKSTATIONS	∢			4	136	4	140
SX830	PRODUCTION ENGINEERING & LOGISTICS SUPPORT	∢		468		49		61
006XS	INSTALLATION (NON-FMP)	4		337		259		262
	TOTAL			808		713		737

P-1 SHOPP LIST ITEM NO. 135

	OTHER PROCIREMENT, NAVY	VAV				P-bA)				DATE Mar-96	
BOOL	BUDGET ACTIVITY - 3 AVIATION SUPPORT	UPPORT		P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT	PMENT					SUBHEAD Y3SX	
COST	ELEMENT OF COST	CONTRACTOR/ LOCATION CITY, STATE	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	ρ	UNIT	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ'D?	IF YES, WHEN AVAIL
SX019	HIGH CAPACITY COLOR PRINTER										
	FY 1996 FY 1997	XEROX, McLean, VA TBD	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun 96 Jun 97	Sep 96 Sep 97	NN	9000 99 900 900	YES	<u> </u>	Z Z
SX020	ELECTRONIC WORKSTATION										
	FY 1997	780 780	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun-97	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4	85,000 85,000	Y ES	99	₹ ₹ Ž Ž

P-1 SHOPP LIST ITEM NO. 135

MODIFICATION INSTALLATION SUMMARY **OTHER PHOTOGRAPHIC EQUIPMENT** P-1 LINE ITEM

(TOA, Dollars in Millions)

System/Modification	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL
Digital Photo Lab/Installation								
DPL Phase I	0.2	0	0	0	0	0	0	0.2
DPL Phase II	0.1	0.3	0.3	0.3	0.3	0.1	0.3	1.7
Total for DPL install	0.3	0.3	0.3	0.3	0.3	0.1	0.3	1.9

P-1 SHOPP LIST **ITEM NO. 135**

PAGE NO.

EXHIBIT P-3N

INDIVIDUAL MODIFICATIONS (P-3A)

MODIFICATION TITLE: Digital Photo Lab (Phase I & II)

MODELS OF SYSTEMS AFFECTED: CVs, CVNs, CNET, PNCLA

DESCRIPTION JUSTIFICATION: Tasked to fund transition CV/CVN Photo Lab from traditional film to imagery. CNO memo Ser 09B/2U2501983 of 23 Oct 92 applies. Phase I initiates a transition from wer" photographic processes to digital imaging process. Phase II enhances the digital capability and replaces, to the maximum extent possible, certain aspects of the

one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic "wer" color processes within the limits of current technology. Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipment was funded in FY 95 and prior. Phase II will be funded in FY 95 through FY 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE: N/A

FINANCIAL PLAN: (\$ in Millions)

₩ \$				6.9							6.9				0.2	0.1	0.3	0.3	0.3	0.3	0.1	0.3	1.9	8.8
TOTAL QTY				8										0	8	-	2	2	2	2	1	2	20	
TO COMPLETIO QTY \$																								
FY 01 \$				9.0							9.0											0.3	0.3	6.0
QTY QTY				2																		2	2	
FY 00 \$				0.8							0.8										0.1		0.1	0.9
ΩTγ				-																	1		1	
FY 99				0.7							0.7									0.3			0.3	1.0
QTY				2																2			2	
FY 98				0.5							0.5								0.3				0.3	0.8
<u>1</u> ∑TØ				2															2				2	_
\$ \$				0.4							0.4							0.3					0.3	0.7
FY 97 QTY				2														2					2	
FY 96				0.4							0.4						0.3						0.3	0.7
PA				2													2						2	
FY 95 & PRIOR QTY \$				3.5							3.5			0	0.2	0.1							0.3	3.8
PT O				6	Di							t		0	ھ	-							6	
	RDT&E	PROCUREMENT	Kit Quantity	Installation Kits	Installation Kit Nonrecurring	Equipment	Equipment Charge Orders	Data	Training Equipment	Support Equipment	Total Procurement Cost	Interim Contractor Support	Installation of Hardware	FY 94 Eqpt	FY 95 Eqpt (Phase I)	(Phase II)	FY 96 Eqpt (Phase II)	FY 97 Eqpt (Phase II)	FY 98 Eqpt (Phase II)	FY 99 Eqpt (Phase II)	FY 00 Eqpt (Phase II)	FY 01 Eqpt (Phase II)	Total Installation Cost	Total Cost

METHOD OF IMPLEMENTATION: Att Install Team

CONTRACT DATES: DELIVERY DATE:

2 MONTHS ADMINISTRATIVE LEADTIME:

1 MONTH

PRODUCTION LEADTIME:

Sep-96 FY 1996:

Sep-97 FY 1997:

Jun 97

FY 1997:

96-unf

FY 1996:

PAGE NO.

P-1 SHOPP LIST **ITEM NO. 135**

INDIVIDUAL MODIFICATIONS (P-3A cont.)

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	INSTALLATION SCHEDULE	INPUT	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		TOTAL	OUTPUT	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		IATOT

PAGE 6

P-1 SHOPP LIST ITEM NO. 135

			REQUIREM	ENTS STUE	Y - NOT-INST	REQUIREMENTS STUDY - NOT-INSTALLED NONCOMSUMABLES	UMABLES	(P-23B)		DATE Mar-96
APPROPRIATION	TION	BUDGE	BUDGET ACTIVITY - 3 AVIATION SUPPORT	AVIATION SE	IPPORT		P-1 NOMENCLATURE	JRE		SUBHEAD
THER PRO	OTHER PROCUREMENT, NAVY	EQUIPN	EQUIPMENT - A/C SUPPORT EQUIPMENT	PPORT EQUIP	MENT		OTHER PHOTOGR	OTHER PHOTOGRAPHIC EQUIPMENT		Y3SX
COST CODE NO.	COST CODE TITLE	TO	TOTAL I.O./ REQUIREMENT	QTY ON HAND AND NOT IN USE	QTY IN USE	QTY DUE-IN W/ FY 1995 & PRIOR FUNDS	QTY DUE-IN W/ FY 1996 PROG FUNDS	PLANNED BUDGET YEAR PROCUREMENT FY 1997	BAL	PHASING RATIONALE
SX019	HIGH CAPACITY COLOR PRINTER	R.	38		4-		0	-2	2 21	OUTYEAR FUNDING
SX020	ELECTRONIC WORKSTATION		66		6		0		4 0 0	OUTYEAR FUNDING
	•					MEMO ENTRIES				
ITEM #1: SX019	019	ITEM#2	ITEM#2: SX020		ITEM#3: SX021		ITEM#4: SX032		ITEM#5:	ij.
CV-61	CV-62 CV-63	CV-61	CV-62	CV-63						
CV-64	CV-67 CV-68	CV-64	CV-67	CVN-68						
CV-65	CVN-69 CVN-70	CV-65		CVN-70						
CV-71	CVN-72 CVN-73	CV-71	CVN-72	CVN-73						
CVS	12 @ 3 36			12 @ 3	36					
CNET PNCLA	1 @ 3	3 CNET PNCLA	NCLA	1 @ 3	ო					
TOTAL	9	39 TOTAL			39		TOTAL			
ITEM#6:		TEM #7:	8		ITEM#8:	25	ITEM#9:		ITEM#10:	

PAGE NO.

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NAVMAT FORM 7110.1		BUE	OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET	OTHER PROCUREMENT, NAVY SET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	MARCH 1996
3 - A	3 – AVIATION SUPPORT EQUIPM	EQUIPMENT			AVIATION LIFE SUPPORT SYSTEMS	PPORT SYSTEMS	
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST(in millions)	\$ 12.1	\$ 17.2	\$ 13.8	\$ 16.0	\$ 27.8	\$ 26.5	\$ 29.4

This account provides for the acquisition, upgrade and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew.

PRC-112 AIRCREW SURVIVAL RADIO - SY040

- Navy (NAVSEA/NAVAIR)/US Army program with Army as procuring service. The AN/PRC-112 radio provides beacon/voice communication and acts as a transponder supplying ranging and identification information. Combined with the Downed Aircrew Locating System, accurately determines an aircrewmans location in range and bearing. AFP granted second quarter FY 1989. Inventory Objective (IO) is 4,000.

PRC-112 P3I (GPS) - SY045

-Survival system upgrade to provide rapid, line-of-sight, two-way Global Positioning System (GPS) data communication capability between a survivor using a modified AN/PRC-112 Radio Set (Aircrew Survival Radio). OSD INTEREST PROGRAM. 10 is 4,000.

PRC-112 P3I (GPS) INTERROGATOR - SY046

-Portable Interrogator Equipment to send, receive and decipher data burst information from the AN/PRC-112 P3I (GPS) Radio. 10 is 48.

CHEMICAL - BIOLOGICAL (CB) PROTECTION UPGRADE FOR HELO AIRCREWS (CB HELO UPGRADE) - SY050

- CB personal protective equipment provides Head-Eye Respiratory (HER) protection for Marine helo and TACAIR aircrew rapid deployment forces. Support, maintenance and training equipment has been provided. System upgrades are required to correct design deficiencies and replace components due to age life limitations. 10 is 3,190.

OTH NAVMAT FORM 7410	OTHER PROCUREMENT, NAVY	(DOD EXHIBIT P-40)	MARCH 1996
3 – AVIATION SUPPORT EQUIPMENT	P-11TEM NOMENCLATURE AVIATION LIF	TURE AVIATION LIFE SUPPORT SYSTEMS	

LASER EYE PROTECTION - SY080

- Laser Eye Proection which is both day and night capable and compatible with new TACAIR and helicopter helmets to protect against existing and projected laser threat. 10 is 7,800.

CWU-60/P - SY100

- An exposure suit for Carrier On-Board Delivery/Vertical On-Board Delivery (COD/VOD) aircrewman. 10 is 4,350.

HELICOPTER EMERGENCY EGRESS DEVICE P3I (HEED P3I) - SY110

- An improved and smaller device than the current HEED. Will provide improved performance and compatibility with other aircrew life support and personal protective equipment and increased maintainability and reliability. 10 is 5,300.

AIRCREW INTEGRATED SURVIVAL/ARMOR PROTECTION (AISAP) - SY120

-An optimized vest/amor system which integrates life preserver, life capabilities for all combat helicopter aircrews. 10 is 3,568.

PASSENGER AND TROOP SURVIVAL SYSTEM (PATSS) - SY130

- A system developed to provide personal flotation that is activated and compatible with other protective, survival and combat equipment. 10 is 8,652.

PASSENGER ANTI-EXPOSURE SURVIVAL SYSTEM (PAESS) - SY140

-Provides an easily donned reusable anti-exposure system which will prolong survival time in cold water and increase chances of a successful rescue at sea for passengers. 10 is 2,100.

136 2

FORM 7110.1 BUDGET ITEM JUSTIFICATION SHEET FACTIVITY 3 - AVIATION SUPPORT EQUIPMENT OTHER PROCUREMENT, NAVY (DOD EXHIBT P-40) MARCH 1996 P-11TEM NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS				DATE
110.1 P-11TEM NOMENCLATURE AVIATION SUPPORT EQUIPMENT AVIATION LIFE SUPPORT SYSTEMS	OTHI	ER PROCUREMENT, NAVY	(DOD EXHIBIT P-40)	
3 - AVIATION SUPPORT EQUIPMENT		TEM JUSTIFICATION SHEET		MARCH 1996
ENI		P-11TEM NOMENCLATURE		
	3 – AVIATION SUPPORT EQUIPMENT	AVIATION L	LIFE SUPPORT SYSTEMS	

EXTREME COLD WEATHER SURVIVAL KITS - SY145

-The kit supplements the items in the survival vest and the life rafts in case of mishap over land in extreme cold weather. IO is 147.

MINI-RAFT BACK PACK - SY150

-Constant wear emergency floatation platform for helicopter aircrewman. 10 is 5,900.

REVERSE OSMOSIS DESALINATOR - SY160

-Emergency water supply for down aircrewman stowed on board multi-place life rafts. It creates fresh water from salt water. 10 is 2,300.

NAVY COMBAT EDGE - SY170

coverage lower anti-G garment used with regulated positive pressure breathing balanced by an upper torso counterpressure vest. This system - This is a Congressional interest program. An integrated aircrew flight ensemble which provides significant G protection by an extended is an adaption to the USAF Combat Edge system to make it compatible with USN/USMC aircraft and aircrews. 10 is 1,821.

AMEUA - SY175

-This is a Congressional interest program. An integrated aircrew flight ensemble which provides small and large aviators, including females, with new and/or upgraded systems to ensure safe and effective performance in Naval aircraft. 10 is 1,200.

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APPROPRIATION OTHER PROCUREMENT, NAVY	*	EAPO	N SYSTEM	COST AN	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	ВІТ (Р⊸	5)	DATE MARCH 1996
BUDGET ACTIVITY 3 AIRCRAFT SUPPORT EQUIPMENT			P-1 ITEM I	ITEM NOMENCLATURE AVIATION LIFE SUPPORT	JATURE			SUBHEAD 43SY
COST ELEMENT OF CODE	IDNT	FY 1995	1	FY 1996	966	FY	FY 1997	
SY040 PRC-112 Aircrew Survival Radio	CO H	<u>></u>	0	324	11,796	<u>></u>	0 0	
SY045 PRC-112 P3I (GPS) SY046 PRC-112 P3I (GPS) Interrogator		200	3,505	1,000	5,000	1,212	2,424	
SY050 CB Helo Upgrade		965	2,766		0		0	
SY080 Laser Eye Protection			0		0	200	200	
SY100 CWU-60/P			0	794	556	2,009	1,004	
SY110 HEED P3I			0	2,650	1,060	2,650	1,060	
SY120 AISAP (Body Armor)		850	1,053	1,000	1,220	1,234	1,491	
SY130 PATSS			0	1,687	206	2,551	638	
SY140 PAESS		450	303	1,000	750	029	553	
SY145 Extreme Cold Weather Survival Kit			0	147	412		0	
SY150 Mini-Raft Backpack			0	400	272	099	363	
SY160 Reverse Osmosis Desalinator .		2,300	2,700		0		0	
SY170 Navy Combat Edge			0	300	066	658	2,007	
SY175 AMELIA			0	300	240	300	240	
SY830 Production Support Services			1,761		3,743		2,736	
TOTALS			12,088	· I	17,181		13,811	
NAVMAT FORM 7110/8 (8–76)			P-1 LINE NO.	PAGE NO.			NO C	UNCLASSIFIED

OTHER PROC	100										
SUDGET ACTIV	OTHER PROCUREMENT NAVY		BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)	EMENT HISTOR	Y & PLANNIN	G EXHIBIT (P	-5A)			MARCH 1996	
	417				P-1 ITEM NOMEMCLATURE	CLATURE				SUBHEAD No.	
B.A. 3 - A	B.A. 3 - AIRCRAFT SUPPORT EQUIPMENT				AVIATION LIFE	AVIATION LIFE SUPPORT SYSTEMS	TEMS			43SY	
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST QUANTITY DELIVERY	CUANTITY	UNIT COST	SPECS AVAIL NOW?	ARE SPEC REVISIONS REQUIRED?	F YES, WHEN AVAILABLE
SY040	AN/PRC-112 Survival Radio FY-1994 FY-1996	Motorola Motorola	ss ss	US ARMY US ARMY	09/94 06/96	36/60 56/90	134	\$4,900 1 \$5,543	YES	ON	O Z
SY045	PRC-112 P3I (GPS) FY 1995 FY 1996 FY 1997	Scottsdale, AZ Motorola, Scottsdale, AZ TBD TBD	SS COMP/FFP FFP/Option	USAF LA AFB NAWCINDY NAWCINDY	08/95 04/96 12/96	07/96 10/96 06/97	500 1000 1,212	\$7,010 \$5,000 \$2,000	YES NO, Mar 96	V /V Z	N/N N/N N/N
SY046	PRC112 P3I (GPS) Interrogator FY 1996 FY 1997	TBD 180	COMP/FFP FFP/Option	NAWC INDY NAWC INDY	04/96 12/96	10/96	5 5	\$53,000	NO, Mar 96	N/A A/A	N/N N/A
SY050	CB HELO Upgrade FY-1995	Meggitt Oxygen Systems Harlow Essex, England	FFP/Option	NAVAR	96/90	96/50	965	\$2,705 2	N/A	O _N	N/A
SY080	Laser Eye Protection FY 1997	TBD	COMP/FFP	NICP PHIL.	26/60	26/60	200	\$1,000	NO, Sep 96	O _Z	N/A
SY100	CWU-60/P FY-1996 FY-1997	. TBD .	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	08/96	04/97	794 2,009	\$ 500	YES	O _N	N/A
SY110	HEED P31 FY-1996 FY-1997	180	COMP/FFP FFP/Option	NICP PHIL.	05/96	03/97	2,650	\$ 400	NO, May 96	O _N	N/A

REMARKS:

1) Multi-service procurement, additional quantities from other services were involved.

2) Contract option years, only the firm fixed price unit cost is shown. Provisioned line items and technical data are not included.

UNCLASSIFIED CLASSIFICATION

ITEM NO. 136

APPROPRIATION OTHER PROCE	APPROPRATION OTHER DESCRIPEMENT MANY			Transfer		Home	1			DATE	
PINCET MUSICAL	WIN WAY		BUDGE! PROCUE	PHUCUHEMENI HISLOHY & PLANNING EXHIBIT (P-5A)	Y & PLANNIN	TO EXHIBIT	-5A)			MAHCH 1996	
B.A. 3 - AIRC	BUDGEL ACHMIT B.A. 3 - AIRCRAFT SUPPORT EQUIPMENT				AVIATION LIFE SUPPORT	P-11TEM NOMEMCLATURE AVIATION LIFE SUPPORT SYSTEMS	TEMS			SUBHEAD No.	
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST CUANTITY DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW?	ARE SPEC REVISIONS REQUIRED?	F YES, WHEN AVAILABLE
SY120	AISAP (Armor) FY-1995	6.SA	<u>a</u>	ASS &	07/95	10/95	850	\$1 239	YES	Q	ď.
	FY-1996 FY-1997	T8D T8D	COMP/FFP FFP/Option	DPSC	08/96	04/97	1,000	\$1,220			
SY130	PATSS FY 1996 FY 1997	TBD	COMP/FFP	NICP PHIL.	08/96	79/90	1,687	300	YES	0 Z	N/A
SY140	PAESS FY 1995 FY 1996	ASO TBD	FFP	NAWC WAR	08/95	12/95	450	673	2 YES	ON	N/A
SY145	FY 1997 Ex. Cold Weather Survival Kit FY – 1996	OBT CAT	COMP/FFP	NICP PHIL.	02/97	02/98	650	\$ 850	>	C	Ž
SY150	Mini-Raft Backpack FY - 1996 FY - 1997	08T 08T	COMP/FFP OPTION	NICP PHIL.	08/96	06/97 76/90 76/01	400	\$ 680 550 550	YES) O	N/A
SY160	Roverse Osmosis Desalinator FY - 1995	180	COMP/FFP	USAF	56/60	11/95	2,300		YES	O Z	A/N
SY170	Navy Combat Edge FY 1996 FY 1997	18D 08T	COMP/FFP OPTION	USAF/NICP PHIL USAF/NICP PHIL	08/96	07/97 12/97	300	\$3,300	NO, May 96	O Z	N/A
SY175	AMELIA FY - 1996 FY - 1997	TBD TBD	COMP/FFP COMP/FFP	NICP PHIL. NICP PHIL.	08/96	05/97 10/97	300	\$ 800	NO, Apr 96	O _N	N/A
DE PARA DICO.											

REMARKS:

1) First year procurement is a sole source procurement through the GSA catalogue, to satisfy an Urgent HQTRs USMC requirement. Follow—on procurements will be competitive.

2) FY 95/96 buys are associated with upgrading existing assets for immediate Fleet use.

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DD FORM 2446-1,JUL 87

UNCLASSIFIED CLASSIFICATION

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PAGENO

P-1 SHOPP LIST ITEMNO 136

DD FORM 2445,JUL 87

FY 1996/97 B	The second secon																							_					
	FY 1996/97 BUDGET PRODUCTION SCHEDULE	FEDULE											P-1 ITEA	P-1 ITEM NOMENCLATURE AVIATION LIFE	CLATURE ION LIFE	NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS	JHI SYS	STEMS						_	DATE:				
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SY145	EXTREME COLD WEATHER KIT	-				-							-					-							-		-		
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SY160	PEVERSE COMOSISDESALINATOR								L									_									H		
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SY170	NAVY COMBAT EDGE												-												-			Ĺ	
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raiss inc	8	280	280	
PAESS TRD	20	100	225	
EXTREME COLD WEATHER KIT: 180	5	25	28	
MINI- RAFT BACKPACK TBD	50	81	36	
REVERSE OSMOSIS DESALINATOR TBD	20	200	250	
NAVY COMBAT EDGE 180	20	75	500	
AMELIA TED	20	20	300	

DD FORM 2445.JUL 87

	PROCUREMENT LEAD TIME	LEAD TIME		
	ADMINIE	ADMIN LEAD TIME	MANUFAC -	TOTAL
	PRIOR	AFTER	TURING	AFTER
	1821	181	LEAD TIME	1 001
PATSS	0	11	10	21
PATSSre-order)	0	10	10	1.5
PAESS	0	11	4	15
P.A.E.S.S.(946)	0	9	9	12
PAESS(97)	٥	10	12	17
EXTREME COLD WEATHER KIT	A KIT 0		5	16
MINI-BAFT BACKPACK	٥	-	10	21
MINE RAFTBACKPACK(re order)	des) 0	4	6	13
A RES DEMOSSIBLES NATOR	0	12	2	14
NAVY COMBAT EDGE	0	11	11	55
MANY COMBATED GEINE UNTER	0	4	11	15
AMELIA	0	11	0	20
AMELIA# e-order)	0	4	6	13
۵	P-1 SHOPP LIST	PAGENO	ON	
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UNCLASSIFIED CLASSFICATION

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FY 1997 PRIC-112 P3I (GPS) Inner. 15 8 7 2 2 1 1	Y045	PRC-112 P3I (GPS)			,		Т																		H		\prod					H
PRO-112 P3I (GPS) Inter. 15 8 7 2 2 1 LASER REPROTECTION LASER REPROTECTION 15 8 7 2 2 1 16 100 100 100 100 100 100 100 100 100 1		FY 1997			1212	40	4	808 10	5	5	5	101	101						+		+		+			1	1	1	+	1	+	+
FY 1997 CWU - 60/P FY 1997 CWU - 60/P FY 1997 ASSAPI(ARMOR) FY 1997	2007	2000 440 DOL 1000 LAND		1			1	1	-		1	+		-	1	-	+	T	+		+		-		-	İ	F	#	+		+	+
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MANUFACTURERS NAME & LOCATION	PROD	PRODUCTION PATES		REACHED
	min sust	min sust 1-8-5	manmum	†
PRC-112 P31(GPS) Molorola. Scottscale. AZ	40	100	500	
PRC-112P3I(GPS) Interrogator Motorola	-	5	20	
Laser Eye Protection TBD	52	500	400	
CWU - 60/P 18D	S	200	300	
HEED P31, TBD	20	265	350	
AISAPIARMORI 180	50	91	250	

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1996/97	FY 1996/97 BUDGET PRODUCTION SCHEDULE	HEDULE												a.	P-1 ITEM NOMENCLATURE AVIATION LIFE	NOMEN	ON UF	NOMENCLATURE AVIATION LIFE SUPPORT SYSTEMS	уз тис	STEMS						1	DATE	lini.	MARCH 1996	966	
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MANUFACTURERS NAME & LOCATION	PROD	PRODUCTION PATES	PATES		REACHED
	min sust	1-8-5	E	maximum	+0
PATSS TBD	S	580		200	
PAESS TBD	99	189		522	
MINI-RAFT BACKPACK TBD	S	100		380	
NAVY COMBAT EDGE 18D	3	75		200	
AMELIA 180	90	99		300	

DD FORM 2445,JJL 87

	PROCUREMENT LEAD TIME	LEAD TIME		
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APPROPRIATION	Tours Trooping		H COLHEMI	-NIS STUDY-	HEQUIREMENTS STUDY - NONCONSUMABLES	ABLES (DOD EXHIBIT P238)	2~23B)	DATE: MABCH 1996
OTHER DOCUMENTAL TAXABLE	BUDGEL ACTIVITY			P-1 ITEM NOMENCLATURE	TURE			AD No
COST COST COST	B.A. 3 – AVIA	-	EQUIPMENT		AVIATION LIFE	AVIATION LIFE SUPPORT SYSTEMS		4357
CODE IIITE	REQUIREMENT	Quantity on hand and not in use	Quantity in use	Quantity Due in w/ FY95 & Prior Funds	Current Year FY 96 Procurement	Planned Budget FY 97 Procurement	Balance	Phasing
SY040 PRC-112 Survival Radios	4 000		0 5 40					Hallorale
SY045 PRC-112 P3I (GPS)	4 000		2,542	134	324	0	0	Funding Constraints
SY046 PRC-112 P31 (GPS) INTERBOGATOR	48			200		1,212	1,288	
SY050 CB Helo Undrade	100		0	0	12	15	21	
VORO COMPATIBLISTICS	1	0	3,190	3,190	0	0		Chold in Constitution
SYNBO I ACED EVE DECITE OFFICE	\perp	0	0	0	0	0	0000	Street Die/runding Constraints
SYAM CHAIL SOR	7,800	0	0	0	0	500	2,000	1
MAN CWO-BOAT	4,350	0	0	0	794	0000	1,000	1
SY 10 REED P3	5,300	0	0	0	2,650	20012	1,50,1	Funding Constraints/Ready for Production
SY120 AISAP (ARMOR)	3,568	0		850	4,000	060,2	0	Funding Constraints/Ready for Production
SY130 PATSS	8.652			000	000,	1,234	484	Funding Constraints/Ready for Production
SY140 PAESS	2 100			0	1,687	2,551	4,414	Funding Constraints/Ready for Production
SY145 EX. COLD WEATHER SURVIVAL KIT	147			450	000'L	099	0	Funding Constraints/Ready for Production
SY150 MINI-RAFT BACKPACK	2000		0	0	147	0	0	Funding Constraints/Ready for Production
SY160 REVERSE OSMOSIS DESALINATOR	0000		0	0	400	099	4.840	Funding Constraints/Beady for Droduction
SY170 NAVY COMBATENCE	2,300	0	0	2,300	0	0	c	Finding Containing Containing Containing
SV175 AMELIA	1,821	0	0	0	300	658	863	Finding Contesting (1971)
	1,200	0	0	0	300	300	200	Thomas Constraints/neady for Production
			MEMO ENTRIES	RES			30	I runding Constraints/Heady for Production
CODE No. SY040-PRC-112 Survival	CODE No. SY	CODE No. SY045-PRC-112P	P3I (GPS)	CONF No SYNAG DEC 112 B2	DDC 419 D31			
	Radio			(GPS) INTERROGATOR	GATOR	Locate No. Sydsu-CB HE	SYUSU-CB HELD CODE No. SY060-CSEL	SY060-CSEL
Tycoms/Squadron 4,000	Tycoms/Squadron	4	000	Tycome Souradron				
TOOM OF THE OWNER OWNER		F	8	i yeoiiis/oquadic	48	lycoms/squadron 3,	3,190 Tycoms/Squadron	luadron 9,000
CODE No. STUBU-Laser Eye Protection	CODE No. SY	CODE No. SY110-HEED P3I		CODE No. SY120-AISAP	-AISAP	CODE No. SY130-PATSS	-	CODE NO SY140-PAESS
Tvcoms/Squadron 7 800	Timomonia	1		(ARMOR)				
	rycoms/squadron	เก๋	300	Tycoms/Squadron	3,568	Tycoms/Squadron 8,6	8,652 Tycoms/Squadron	uadron 2,100
CODE No. SY100-CWU-60/P	CODE No. SY	treme Co	p	CODE NO SY150-MINI-BAET	-MINI-BAFT	CODE NO EV 460 Description	-	
	Weather Survival Kit	rvival Kit		BACKPACK		Osmosis Desalimator	_	CODE No. SY170-Navy Combat Edge
lycoms/squadron 4,350	Tycoms/Squadron		147	Tycoms/Squadron	006'S u		2,300 Tycoms/Squadron	uadron 1,821
CODE No. SY175 - AMELIA								
Tycoms/Squadron 1,200								
DD FORM 2445, JUL 87			P-1 SHOPP. LIST ITEM NO.	PP. LIST NO.	PAGE NO.		UNCLASSIFIED	ĒD
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APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA-3: NAVY/AVIATION SUPPORT EQUIPMENT QUANTITY QUANTITY QUANTITY (In Millions) \$13.5 \$12.2 \$44.1 \$54.7 \$65.1			BUDGET	TEM JUSTII	BUDGET ITEM JUSTIFICATION SHEET	HEET		DATE:	
SPRIATION/BUDGET ACTIVITY ER PROCUREMENT, NAVY/ : NAVY/AVIATION SUPPORT EQUIPMENT 1996 1997 1998 TITY \$18.9 \$13.5 \$12.2 Ilons) \$0.3 \$18.9 \$13.5 \$12.2			P-40					March 1996	
1998 1999 2000 5 \$12.2 \$44.1 \$54.7	APPROPRIATION/BUD OTHER PROCURE	GET ACTIVITY MENT, NAV	"			P-1 ITEM NO AIRBORNE MI	OMENCLATURE NE COUNTERMEASUR	ES 73S0	
lions) \$18.9 \$13.5 \$12.2 \$44.1 \$54.7	BA-3: NAVY/AVIA	TION SUPPO	1896	1997	1998	1999	2000	2001	
lions) \$13.5 \$12.2 \$44.1 \$54.7	QUANTITY								
	COST (In Millions)	\$0.3	\$18.9	\$13.5	\$12.2	\$44.1	\$54.7	\$65.1	

TEM DESCRIPTION/JUSTIFICATION:

resolution sonar. AMCM squadrons currently have capability in mechanical, magnetic, and acoustic sweeping, mine surveillance actuate. (2) In mine hunting the object is to actually locate and classify, mark, or neutralize the mine, usually by means of high The equipment is divided into two broad categories, minesweeping and minehunting; (1) minewseeping is performed by mechanical or influence sweeps. In mechanical sweeping; the mine mooring is severed by the sweep gear allowing the Airborne Mine Countermeasures (AMCM) Equipment is used by MH-53E helicopters to counter the threat of sea mines. mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to and marking. Its mission is to locate, classify and neutralize moored and bottom mines.

MK-105. Technological upgrade increases supportability, reliability and maintainability (R&M), and increases operational effectiveness. by a MH-53E helicopter, allowing for safe, high speed sweeping of course magnetic influence mines at twice the output of the current S0061 - The MK-105 magnetic minesweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed ECPs are analyzed, prioritized and screened to accomodate replacement of subsystems/components because of obsolescence.

S0060 - The funds provided are for the procurement of the A/N37U-1 Mechanical Minesweeping Systems.

S0020 - The funds provided are for the modification of systems to accomodate replacement of subsystems/components because of obsolescence. ECPs are analyzed, prioritized and screened to accomodate replacement of subsystems/components.

S0062 - The funds provided are for the procurement of the Multi-mission Craft Air Cushion (MCAC).

P-1 SHOPPING LIST
TEM NO.137 PAGE NO.1

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DD Form 2454, JUN 86

CLASSIFICATION:

	S NOW S	WEAPON SYSTEM COST ANALYSIS EXHIBIT P-5 P-1 ITEM NOMENCLATURE/SUBHEAD	NCLAT	SIS EXHIBIT URE/SUBHEAD			March 1996	1996
BA-3: NAVY AVIATION SUPPORT EQUIPMENT		AIRBORNE MINE COUNTERMEASURES TOTAL COST IN THI	TOTAL	COST IN THOU	73S0 DUSANDS	COUNTERMEASURES 73SO TOTAL COST IN THOUSANDS OF DOLLARS		
ELEMENT OF COST IDENT	1	FY 1995		FY 1996		FY 1997		
	QTY	TOTAL COST	QTY	TOTAL COST	αTY	TOTAL COST	QTY	TOTAL COST
MINE WARFARE, N862								
MODIFICATION		293		764		645		
A/N37U-1 MECH MINESWEEPING		0	œ	3,447	6	4,520		
MK-105 UPGRADE		0	ო	14,725		4,600		
		0		0	-	3,700		
		293		18,926		13,465		
DD FORM 2446, JUN 86 P-1 S	P-1 SHOPPING LIST	2 LIST			C	A A SOUTH A COLUMN		

			BUDGET P	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-5A	HISTORY	AND PLA	NNING EX	HIBIT		DATE March]	1996
				201	_	O 4 ITEM NOMENCI ATIES	36		SUBHEAD		
THER	APPROPRIATION BUDGET ACTIVITY OTHER PROCUREMENT, NAVY	>			AIRBOR	AIRBORNE MINE	į			7380	
3A-3:	BA-3: NAVY/AVIATION SUPPORT EQUIPMENT	ORT EQUIPMENT			COUNT	COUNTERMEASURES	JRES				
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
20060	A/N37U-1 MECH MINESWEEPING	ESWEEPING									
	FY 1996		C/FFP	NAVSEA	05/96	02/97	9	574	YES	9	
	FY 1997	GROLON, CI GSS GROTON, CT	OPTION	NAVSEA	11/96	11/97	თ	502	YES	9	
											1
S0061	MK-105 UPGRADE FY 1996	EDO CORP	į		0	9	•	900	Ş	2	
		COLLEGE POINT, NY	SS/FFP	NAVSEA	12/95	02/98	-	4,908	2	2	
		EDO CORP	SS/FFP	NAVSEA	02/96	07/98	2	4,908	O _N	Q N	
	FY 1997	EDO CORP	OPTION	NAVSEA	04/97						
S0062	MCAC FY 1997	TBD	C/FFP	NAVSEA	02/97	02/98	-	3,700	YES	S _O	
					,						

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Continue and con	OPN BA-3: NAVY/AVIATION SUPPORT EQUIPMENT	N SUPPOF	RT EQU	PMEN			AIRBORNE MINE COUNTERMEASURES	AIRBORNE MINI	NECC	UNTE	RMEA	SURE	(A									<u>w</u>	SUBHEAD	7350		8 -	DATE: Mard	March 1996	88		
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CLASSIFICATION: UNCLASSIFIED

	MODIFICAT	MODIFICATION INSTALLATION SUMMARY (EXHIBIT P-3N)	TION SUMB	MARY				DAIE	
	(TOA,	(TOA, Dollars in Millions)	ions)					March 1996	
APPROPRIATION/BUDGET ACTIVITY Ba-3: Navy/aviation support equipment	UIPMENT					P-1 ITEM NOMENCLATURE AIRBORNE MINE COUNTER (73SO)	MENCLATUR	P-1 ITEM NOMENCLATURE AIRBORNE MINE COUNTERMEASURES (73S0)	
System/Modification	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL
MODIFICATION AND 711.1 MECH MINESWEEDING	1107.0	293.0	754.0	645.0	816.0	2895.0	1634.0	902.0	9146.0
UPGRADE	0.0	0.0	14725.0	4600.0	92	180	180	25000.0	89600.0
MCAC MAGNETIC CABLE	0.0	0.0	0.0	3/00.0	2090.0	711.0	0.0	0.0	2801.0
AN/AUS-20	0.0	0.0	0.0	0.0		72	243	31600.0	78311.0
AMNSYS	0.0	0.0	0.0	0.0			107	7611.0	18400.0
TOTAL	7101.0	293.0	18926.0	13465.0	12181.0	44117.0	54723.0	65113.0	215919.0
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P-1 SHOPPING LIST ITEM NO.137

PAGE NO. 7

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OTHER PROC BUDGET ITEM JU T EQUIPMENT - OTHER SUPPORT EQUIPMENT FY 1995 FY 1996 FY 1997 F A 0 0 0	UNCLASSIFIED								Mar-96
BUDGET ITEM JUSTIFICATION SHEET				OTHER	PROCUREMEN	T NAVY			
T EQUIPMENT - OTHER SUPPORT EQUIPMENT LAMPS MK III SHIPBOARD EQUIPMENT FY 1995 FY 1996 FY 1998 FY 2000 A 0 0 0 0 A 0 0 0 0 0 B 16.2 15.3 25.0 0 2.6	P40 EXHIBIT			BUDGET ITE	M JUSTIFICAT	ION SHEET			
FY 1995 FY 1997 FY 1998 FY 2000 FY 2000 FY 1999 FY 2000 FY 2	AVIATION SUPPORT E	QUIPMENT - OTHER	SUPPORT EQU	IIPMENT	LAMPS	MK III SHIPBO	ARD EQUIPME	ENT U3S1	
4 0 0 0 0 0 1		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
1 6.1 16.2 15.3 25.0 0	QUANTITY	4	0	0	0	0	0	0	
6.1 16.2 15.3 25.0 0									
	COST IN MILLIONS	6.1	16.2	15.3	25.0	0	2.6	0	

(0)

The LAMPS MK III Ship/Air Weapon System is a computer integrated ship/helicopter system that increases the effectiveness of surface combatants.

The Weapon System is a multi-appropriation funded program. The OPN-3 program funds the LAMPS MK III shipboard equipment that is to be installed in existing ships being backfitted with the LAMPS MK III Weapon System. Procured under this line are:

- (1) AN/SRQ-4, a shipboard terminal data transmission device,
- (2) HLS (Helicopter Landing System), including Recovery, Assist, Securing, and Traversing (RAST) System; the Horizon Reference Set (HRS); and the flight Deck Ststus & Signaling System (FDSSS), and
 - (3) Acoustic Processor DDG-993, a Sonar Signal Processing System (SSPS).

The AN/SRQ-4 is an electronic device which receives electronic surveillance measures, radar video and acoustic data and transmits secure voice, shipboard computer and air navigation data. HLS is used in the launching and retrieving of LAMPS MK III helicopters from LAMPS ships. The Acoustic Processor accepts acoustic data and selects, records, reproduces, processes, and displays the data as controlled by the Acoustic Sensor Operator (ASO).

Engineering Support and advanced planning associated with installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995. The FY 1995 budget request provides for the procurement of four (4) Acoustic Processor systems, System Integration, Logistics, Production

FY 1996 and FY 1997 supports Systems Integration, ILS, Production Engineering and installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995

ITEM NO. P-1 138

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. OTHE AVIATIOI	R PROCUR	A. OTHER PROCUREMENT, NAVY BUDGET ACTIVITY -3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIP	JOGET ACT	EQUIP	B. LAMPS MK III SHIPBOARD EC	UIPMENT	C. N/A	D. DATE: Mar-96
WEAPON SYSTEM COST ELEMENTS	IDENT	QTY P	FY 1995 TOTAL COST	, OTV	FY 1996 TOTAL COST	ΔTV	FY 1997 TOTAL COST		
SYSTEM INTEGRATION			200		782		0		
ACOUSTIC PROCESSOR		4	1100		0		0		
ILS			100		100		0		
PRODUCTION ENGINEERING/QA/TE			517		300		0		
INSTALLATION OF EQUIPMENT (FMP)			3660		15026		15282		
TOTAL			2002		900 91		76.282		
				P-1 ITEM NO.	PAGE NO.		2020		_

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P-1 LINE 138 LAMPS MK III SHIPBOARD EQUIPMENT

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

TOTAL FY 01 0.0 FY 00 0.0 FY 99 0.0 FY 98 FY 97 15.3 FY 96 15.0 FY 95 3.7 LAMPS MK III UPGRADE SHIPALT (334)

PAGE

EXHIBIT P-3N

P-1 LINE 138 LAMFS M K III SHIPBOARD EQUIPMENT

MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

LAMI'S MK III UFCRADE

DGC-95 CLASS SHIPS

The LAMI'S MR III UFDCR. SHIPALT 334, Justills and integrates the LAMI'S MK III weapons system on DDC-993, DDC-994, DDC-995, Brit II UFDCR. SHIPALT 334, Justills and integrated ship-beliopper weapons system that goally increases the discurrences of surface or combanis, and consist of the Acoustic Processor unique LAMI'S MK III data link (AN/SRC) 4 and the Helicopter Landing System (HLS) were procured with prior lysar funds; the Acoustic Processors are being procured in PY 1995.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN (\$ in Millions):

	FY 94 & Prior Oty \$		Ê	FY 1995	È	FY 1996	ŝ	FY 1997	ŝ	FY 1998	λίδ	FY 1999	TO COMP	TOTAL	_ &
RDT&E PROCUREMENT Kits Obanity Installation Kits Obanity Installation Kit Nonrecurring Equipment Equipment Nonrecurring Equipment Nonrecurring Claning Equipment Support Equipment Support Equipment Interim Contractor Support		3.8	. •). O*											3.8
Total Procurement Cost Installation of Hardware		3.8	4	1.0**										4	8.
FY 94 & PKIOR (FY 95 (4 KITS) Total Installation Cost	0		AP	3.7		16.7		16.1	88	25.9 25.9			. 0.0		62.4
Total Procurement Cost		3.8	4	4.7	-	16.7	-	16.1	2	25.9			0.0		67.2
METHOD OF IMPLEMENTATION:	N/A		ADMIN	ADMINISTRATIVE LEADTIME:	TIME		νo		PRODUCT	PRODUCTION LEADTIME:			7 MONTHS		
CONTRACTS DATES:	FY 94: N/A		FY 95: 3/95	3/95	(REFL	(REFLECTS ACOUSTIC PROCESSOR ONLY)	PROCESSO	R ONLY)							
DELLIVERY DATE:	FY 94: N/A		FY 95: 10/95	56/01	(REFL	(REFLECTS ACOUSTIC PROCESSOR ONLY)	PROCESSO	R ONLY)							
INSTALLATION SCHEDULE: /1	FY 94	4	-	FY 95	-	FY 96	-	FY 97	-	FY 98	1 2	FY 99 3 4	4		
INPUT FY 94 & PRIOR FY 95						-	•	-	-	_					
INPUT FY 94 & PRIOR FY 95								-		-	-				

Show Justall Schedule Through the FYDP AADVANCE AADVANCE AADVANCE FATANINING.
In addition, AADVANCE STACK of units) and H15 (4 units) hardware were procured with prior years funds and are to be installed concurrently with the Acoustic Processor budgeted in FY 1995.
Installation costs are priced as a complete ship alteration, costs for the installation of individual equipment is not available.

1/ Reflect input/output of LAMPS MK III Upgrade Systems.
**The FY 95 procurement of (4) Acoustic Processor is an economical buy.

PAGE NO. 4

EXHIBIT P-3a Individual Modification

B. APPROPRIATION/BUDGET ACTIVITY AVIATION SUPPORT ACTIVITY-OTHER SUPPORT EQUIPMENT LINE ITEM AND LOCATION METHOD CONTRACT AWARD FIRST UNIT AVAILABLE REV WHEN STOOP ACOUSTIC PROC DDG-993 NAVSEA S/FFP NAVSEA 3/95 10/95 4 275 YES NO HEMARKS:				PROCUREME EXHIBIT P-5A	ENT HISTO	PROCUREMENT HISTORY & PLANNING EXHIBIT P-5A	(D		A DATE:	Mar-96	
AND LOCATION METHOD CONTRACT AWARD FIRST OUNIT AVAILABLE REV REQUIREMENT AND LOCATION METHOD CONTRACT AWARD FIRST OUNIT AVAILABLE REV REQUIREMENT OCOST NOW REQUIREMENT REQUIREMENT OF STEP NAVSEA S/FFP NAVSEA 3/95 10/95 4 275 YES NO UNCLASSIFIED	APPROPRIATION/BI	UDGET ACTIVITY				C. P-1 ITEM NO	OMENCLATUR	ш			
AND LOCATION METHOD CONTRACT AWARD FIRST UNIT AVAILABLE REV & TYPE BY DATE DELIVERY QUANTITY COST NOW REQ'D REQ'D NAVSEA S/FFP NAVSEA 3/95 10/95 4 275 YES NO UNCLASSIFIED	AVIATION SUPPORT	T ACTIVITY-OTHER SUF	PORT EQUIP					LAMPS MR	(III SHIPBOARD	EQUIPMENT	
NAVSEA S/FFP NAVSEA 3/95 10/95 4 275 YES	LINE ITEM FISCAL YEAR	AND LOCATION & TYPE	METHOD & TYPE	CONTRACT	AWARD DATE	FIRST DELIVERY	QUANTITY	UNIT	AVAILABLE NOW	REV REQ'D	WHEN AVAILABLE
	S1009 ACOUSTIC PROC DDG-993 FY 95		S/FFP	NAVSEA	3/95	10/95	4	275	YES	<u>S</u>	
	MARKS:							UNCLASS	IFIED		

P-1 PAGE #

	APPROPRIATION OTHER PROCUREMENT, NAVY					PROL	PRODUCTION SCHEDULE (EXHIBIT P-21)	SCHED	OLE (E)	KHIBIT P	.21)																						DATE	TE Ma	96-1		
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TSI I SUI GOUND I CO	P-1 SHOPPING LIST ITEM NO. PAGE NO.				2. AF	PN.	TIFA	DTIME	14				ADM ADM	2				O TIN	BDE				RE OR		4 1	
	ITEM NO. PAGE NO.	DD EODIN 2447 II IN 96			5)		0.10	HODE	UNIC	TS					

					IME PHASED	REQUIREM	TIME PHASED REQUIREMENTS SCHEDULE	J I						
APPROPRIATION/BUDGET ACTIVITY OPN BA3: PROCUREMENT, NAVY	MENT, NAVY							•						
1ST QTR E.I/L QTY	2ND QTR E.I/L	ΔTΥ	3RD QTR E.I/L	ΔTV	4TH QTR E.M.	νщо	1ST QTR E.I/L	ΥТΩ	2ND QTR E.I/L	ΔΤΛ	3RD QTR E.I/L	ΔΤΥ	4TH QTR E.I/L	QTY
		FY 96								FY 97				
			DDG-995	-							DDG-993	-		
		FY 98												
DDG-996	DDG-894	-												
DD FORM 2447S, JUN 86	98						P-1 ITEM NO. 138		SHOPPING LIST PAGE NO.				EXHIBIT P-23A	

		OTHER !	OTHER PROCUREMENT, NAVY	NT, NAVY		(DOD EXHIBIT P-40)	T P-40)	DATE
NAVMAT 7110.1	<u>a</u>	BUDGET ITER	M JUSTIFICA	DGET ITEM JUSTIFICATION SHEET	ET			Mar 1996
BUDGET ACTIVITY 3 - AVIATION SUPPORT	PORT		P-1 ITEM NO	P-1 ITEM NOMENCLATURE	ш			SUBHEAD NO.
EQUIPMENT - A/C SUPPORT EQUIPMENT	ENT		REWSON PH	REWSON PHOTOGRAPHIC EQUIPMENT	EQUIPMENT			Y3S4
	FY 1995	FY 1996	FY 1997	FY 1997 FY 1998 FY 1999	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (in millions)	9.0	9.0	6.0	6.0	1.4	1.8	1.8	

Tactical Airborne Reconnaissance Pod System (TARPS) as well as related Carrier Intelligence Center (CVIC) photographic This line procures photographic film processing, printing, and film interpretation equipment for the exclusive support of the on-going intelligence mission of CV/CVNs. Specifically, this equipment primarily supports the mission of the F-14 borne requirements, and the hand held intelligence photography collected by the embarked Airwing (nine squadrons) and deployed Carrier Battle Group (CVBG). The CVBG normally consists of the CV/CVN and its support ships.

Airwing (CVW) and CVBG. TARPS imagery is often provided to in-theater NATO forces as well. TARPS remains the only Also, this equipment supports the photographic intelligence that is disseminated from internal and National sources to the actical aerial photographic reconnaissance asset in theater and is directly controlled by the Theater Commander.

The FY95-97 funds are continuing to procure the needed inventory objective of subject equipments. They are also providing new equipments for scanning and digital dissemination of TARPS film imagery.

P-1 SHOPP LIST

ITEM NO. 139

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STIN THOUSANDS OF DOLLARS) ST IN THOUSANDS OF DOLLARS) 1995 FY 1996 FY	APPROPRIATION OTHE	ATION OTHER PROCUREMENT, NAVY	PROGRAM COST BREAKDOWN WEAPON SYSTEM COST ANALYSIS	REAKDOWN ST ANALYSIS		(DOD EXHIBIT P-5)	IBIT P-5)		DATE Mar-96
OF COST CODE	BUDGET A	CTIVITY 3 - AVIATION SUPPORT IT - A/C SUPPORT EQUIPMENT		P-1 NOMEN	VCLATURE HOTOGRAPH	IIC EQUIPA	MENT		SUBHEAD Y3S4
MISC SMALL EQUIPMENT & ECPS MISC SMALL EQUIPMENT & ECPS MISC SMALL EQUIPMENT & ECPS MISC SMALL EQUIPMENT & ECPS A 100 TOTAL S553 FY 1996 FY 1996 FY 1996 FY 1996 FY 1996 FY 160ST GTY TTL COST GTY TTL C	COST		IDENT	(TOTAL CC	ST IN THOUS	ANDS OF	DOLLARS)		
MISC SMALL EQUIPMENT & ECPS AT TTL COST QTY TTL COST QTY MISC SMALL EQUIPMENT & ECPS AT A A 55 A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A 55 A A A A 55 A A A A 55 A A A A 55 A A A A 55 A A A A A 55 A A A A 55 A	CODE	ELEMENT OF COST	CODE	FY	1995	FY	7 1996	FΥ	FY 1997
MISC SMALL EQUIPMENT & ECPS PRODUCTION ENGINEERING A 100 TOTAL 553					TTL COST		TTL COST	QTY	TTL COST
TOTAL FRODUCTION ENGINEERING A 100 553	84019	MISC SMALL EQUIPMENT & ECPS	∢		453		224		200
	\$4830	PRODUCTION ENGINEERING	4	.,	100		371		433
		TOTAL			553		595		933
			-						

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PAGE NO.

P-1 SHOPP LIST ITEM NO. 139

		OTHER PROCUR	PROCUREMENT, NAVY			DATE	
JAVMAT FORM 7110.1	BUD	BUDGET ITEM JUSTIFICATION SHEET	CATION SHEET		(DOD EXHIBIT P-40)		March 1996
SUDGET ACTIVITY			P-1 ITEM NOMENCLATURE	ATURE			
AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQ.	AFT SUPPORT EQ.		STOCK SURVEILLANCE EQUIPMENT		43S2		
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
DUANTITY							
SOST (in millions)	1.4	1.5	1.6	1.6	1.9	1.9	1.9

PROGRAM DESCRIPTION/JUSTIFICATION/EXECUTION. The NAVAIRSYSCOM (AIR-3.1.1) Stock Surveillance Equipment (SRV) Program furnishes varied specialized WPNSTA Yorktown is responsible for procurement of missile electronic component test equipment and Airborne Weapon Analysis Reporting System (AWARS) and ancillary test equipment/systems for both air-to-air and air-to-ground missiles, ordnance, ammunition and their related components. The SRV Program equipment. NAVSURFWARCENs Crane Div and Indian Head Div are responsible for procurement of missile and ordnance energetic test equipment. directly supports the System Effectiveness Engineering (SEE) Program. This helps to provide accurate indicators for Fleet Readiness in regard to safety, serviceability, reliability, availability, quality and mission effectiveness. The following SEE activities participate in the SRV Program: NAVSURFWARCEN Crane Div., WPNSTA YORKTOWN, AND NAVSURFWARCEN Indian Head Div.

AIR LAUNCHED GUIDED MISSILES - All-Up-Round (AUR) missiles presently supported are: PHOENIX, SIDEWINDER, SPARROW, AMRAAM, HARPOON, HARM, HELLFIRE, MAVERICK, SIDEARM, PAVEWAY III, WALLEYE, and their related equipment.

AIRBORNE ORDNANCE/AMMUNITION/SPECIAL STORES - Weapons/Stores presently supported are: Aircrew escape propulsion systems, cartridges, explosive ordnance system devices, cartridge actuated devices, common aircrew ejection set, gun ammunition/fuzing systems, pyrotechnics, aircraft rockets, general purpose bombs, cluster weapons, and their related components.

P-1 SHOPP, LIST PAGE NO. ITEM NO. 140 1

отнея РВ	OTHER PROCUREMENT, NAVY	WE	APON (WEAPON COST ANALYSIS (P-5)	(P-5)				DATE	
									March	March 1996
BUDGET ACTIVITY AVIATION SUPPOR	BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQUIPMENT	AT EQUIPME		P-1 ITEN STOCK	P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQ	P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQUIPMENT			SUBHEAD NO 43S	43S2
						(Total cost in thousands of dollars)	sands of	dollars)		
COST CODE	E ELEMENT DE COST	IDENT	į		_ F	1995	Ε	1996	F F	1997
			ΔTY	TOTAL COST	QTV	TOTAL COST	ΩTY	TOTAL COST	ΔTΛ	TOTAL COST
S2005	Air - Launched Guided Missiles					ь		€9		€
	Air - to - Air PHOENIX		•			, ,0,		•		
	SIDEWINDER					45		65		0 05
	SPARROW					32		40		22.0
	AMRAAM					84		104		09
	Air - to - Ground									
	HARPOON					09		9		9
	HARM					120		8		90
	MAVERICK					65		55		£ .
	PAVEWAY III							02 RY		
	SIDEARM					20		5 5	WF-1	
	WALLEYE					37		15		
	Multi - System Purpose ALL A/L Guided Missiles					385		157		703
	Subtotal (S2005)					918		969		896
S2006	Air - Launched Ordnance					465		778		627
	GRAND TOTAL					1383		1474		1590
NAVMAT FO	NAVMAT FORM 7110/8 (8-76)			P-1 SHOPP. LIST	PAGE NO.					
			_	ITEM NO.						

	BUDGET PI BUDGET PROCUREMENT HISTORY & PLANNING	ET PROCU	REMENT HISTOR	Y & PLAN	DNING		(EXHIBIT P-5A)	5A)	DATE Marc	March 1996
APPROPRIATION/BUDGET ACTIVITY 3	ITY 3			P-1 ITEM I	P-1 ITEM NOMENCLATURE	JRE			SUBHEAD NO.	
OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT	WIATION SUPPORT EC	UIPMENT		STOCK SU	STOCK SURVEILLANCE EQUIPMENT	EQUIPA	1ENT		4382	
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES WHEN AVAILANLE
FISCAL YR. 1995 PROG.										
S2005 ENEHGY DISPERSIVE X-RAY EMFTS	TBD IRO	C/FP C/FP	INDIAN HEAD CRANE	AUG 95 JUL 95	AUG 96 MAR 96		189.00	YES	N/A N/A	
HANDLING SYSTEM	TBD	C/FP	CRANE	AUG 95	96 NOL	-	208.00	YES	N/A	
S2006 REMOTE MONITOR SETERA, MODEL 80	PW SETERAM	C/FP C/FP	CRANE	JUN 95 APR 95	JUN 96 MAR 96		144.00	YES	N/A N/A	
FISCAL YR. 1996 PROG.										
S2006 PYROTECHNIC/PROPELLENT TEST CONTAINMENT CHAMBER	COMARCO Bloomfield, IN	C/FP	CRANE	96 NOC	MAŸ 97	4	450.00	ON 96/9	N/A	
FISCAL YR. 1997 PROG.										
S2005/S2006 HIGH SPEED STURRY CUTTER	TBD	C/FP	CRANE	76 NUC	30N 98	-	(*) 375.00	NO 5/97	NA	
REMARKS										

EQUIPMENT OVER \$100.0K

(*) THE HIGH SPEED STURRY CUTTER WILL BE CAPABLE OF "CUTTING" BOTH MISSILE AND ORDNANCE EXPLOSIVES AND PROPELLANTS.
\$75K (FOR DESIGN AND FABRICATION OF THE HOLDING FIXTURE) WILL BE FUNDED UNDER S2005 (MISSILES) AND THE OTHER \$300K (FOR HARDWARE) UNDER S2006 (ORDNANCE).

PAGE NO.	8
P-1 SHOPP, LIST ITEM NO.	140

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BUDG	BUDGET ITEM JUSTIFICATION SHEET	ICATION S		(DOD EXHIBIT P-40)	P-40)	DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT	FY GET ACTIVITY 3 RCRAFT SUPPORT E	QUIPMENT	P-1 ITEM NO OTHER AVIA	P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT	E F EQUIPMENT		SUBHEADS 43S7 U3S7/Y3S7
FISCAL YEARS	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY COST (in millions)	15.0	12.2	6.7	2.1	2.1	2.1	0.2

1. Tactical Aircraft Mission Planning Systems (TAMPS) - FY 1995/96 only The following items are funded in this line:

2. Industrial Facilities Equipment

3. Capital Automated Data Processing Equipment (ADPE)

4. NAVAIR Support Equipment - FY 1995 only

1. Tactical Aircraft Mission Planning Systems (TAMPS)

* In FY 1997 and beyond TAMPS is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS). Detailed justification for the TAMPS program is provided in the OPN BA2 backup book.

2. Industrial Facilities Equipment

This item supports funding of capital costs associated with the Navy's government-owned but contractor-operated Deep Water Test Facility at San Clemente Island.

3. Capital ADPE

Procurements supporting the NAVAIR organization (NALDA & I/ETMS), which were formerly budgeted and managed under the Computer Acquisition Program (CAP) in FY 95 and prior is now directly controlled by NAVAIR, effective FY 1996. Details regarding these NAVAIR Capital ADPE projects are provided below:

BUD	BUDGET ITEM JUSTIFICATION SHEET	ICATION S	HEET	(DOD EXHIBIT P-40)		DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT	VITY JDGET ACTIVITY 3 AIRCRAFT SUPPORT EC	QUIPMENT	P-1 ITEM NO OTHER AVIA	P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT	P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT		SUBHEADS 43S7 U3S7/Y3S7
FISCAL YEARS	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY COST (in millions)	15.0	12.2	7.9	2.1	2.1	2.1	0.2

a. Naval Aviation Logistics Data Analysis (NALDA):

Sufficient automated data processing equipment (ADPE) and accessibility to the NALDA data base is presently not available at most Navy and Marine Corps Fleet level maintenance and repair facilities. The ADPE is necessary to eliminate the current on-going degradation of their capability to make informed NAVAIR was directed by CNO to extend NALDA access to additional USN and USMC activities, principally the Fleet and to all NAVAIR Team sites. decisions affecting material readiness, safety, and resource allocations.

bank; (2) standardized procedures for data access and data analysis techniques; (3) aviation hardware/software/firmware configuration management tracking capabilities; (4) consolidation of redundant autonomous systems into a single system; (5) standardized, aviation-wide MIS support; (6) a Logistics Support critical mission support analyses. NALDA provides the following capabilities: (1) a cost-effective corporate, integrated aviation maintenance/logistics data (8) more timely (daily) receipt of fleet AV-3M and configuration data; (9) ability to access centralized fleet-wide, near real-time, operational/readiness data from the NALDA data bank consists of aviation maintenance, engineering, operational readiness, safety, configuration management, parts life tracking, and system implemented using the CLIP-CIM software for aviation weapons systems - the fleet's number one priority to improve readiness and safety of flight; Analysis Record (LSAR) data system mandated by OSD MIL-STD 1388-2B; (7) an accurate configuration management and serial number tracking data from NALDA in accordance with DoD security regulations; and (10) Logistics Management Decision Support System (LMDSS). Information available NALDA is an upline integrated logistics support (ILS) data system designed to accommodate upline logistics data reporting requirements and to perform other critical logistics data for all naval aircraft, engines, components, and other weapons equipment. Data reporting requirements for the NALDA system are directed by OPNAV and NAVAIR as defined primarily by the Naval Aviation Maintenance Program (NAMP) manual. Users of the NALDA system are located at all NAVAIR heaquarters, field activities, fleet TYCOMS, Functional Wings, Intermediate Maintenance Activities, and other aviation logistics activities.

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n a	BUDGET ITEN	EM JUSTIF	M JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	r P-40)	DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT	FIVITY BUDGET AC	TIVITY 3 F SUPPORT EQ	UIPMENT	P-1 ITEM NO OTHER AVIA	P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT	P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT		SUBHEADS 43S7 U3S7/Y3S7
FISCAL YEARS		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY COST (in millions)		15.0	12.2	7.9	2.1	2.1	2.1	0.2
C		(1) (mm.)						

b. Interactive/Electronic Technical Manual System (I/ETMS)

implementation requirement to eliminate paper technical manuals and provide electronic technical manuals to the aviation maintenance community. The I/ETMS is a strategy which supports the Automated Library Technical Manual System (ALTMS) and Automated Technical Information System (ATIS), I/ETMS configuration consists of the hardware, software, and network interfaces to support fleet maintenance activity capability to receive, store, and information in the support of developing and fielding Naval Aviation Weapon Systems and Equipment. I/ETMS is the result of a DoD/DoN CALS NAVAIR application ATIS (AIR) programs. The objective of the I/ETMS strategy is to provide the capability to receive and use digital technical use electronically presented maintenance technical information.

digital delivery, improved maintenance and supply functionality, and provide interfaces to existing fleet information systems (ISs). (Note: Implementation of display of digital technical data, which will augment the capability provided by ALTMS. ATIS (AIR) is intended to satisfy requirements for value-added ATIS (AIR) is designed to develop and implement at intermediate level maintenance activities an automated system for the distribution, delivery, and of three (3) sites will commence in FY 1995 and will be completed in FY 1996.)

4. NAVAIR Support Equipment

Philadelphia. Support equipment is also provided for the Naval Air Warfare Center, Weapon Division, Point Mugu, CA and the Naval Air Warfare Center, Acquisition Management System (JAMS) II, which provides tools to efficiently oversee management of today's defense systems acquisition by generating logistics support, contract and budgetary data. The last year of funding for the stand-up of the NHN was FY 1995. Also, FY 1995 provides for the Joint Training Systems Division, Orlando, FL, the Pacific Missile Range Facilities (PMRF), Hawaii, and the Naval Air Technical Services Facility (NATSF), Includes investment equipment used in the operation of NAVAIR Headquarters, and NAVAIR Field Activities such as the Naval Air Warfare Center, Aircraft Division, Patuxent River, MD. This equipment is evaluated on a cost-effective (lease vs. purchase) basis. All non-centrally mananged OIS equipment is funded in this line item. Beginning in FY 1989 the procurement of the NAVAIR Headquarter (NHN) system was included in the OISits Program Executive Offices, and Naval Air Warfare Center Headquarters to support management of aviation design, development, engineering, consistent, quality procurement packages in a reduced amount of time. Effective in FY 1996, these non-centrally managed procurements will be Headquarters line. NHN provides an integrated data communications network that extends the capabilities of the Naval Air Systems Command, budgeted and executed in the Operations & Maintenance, Navy appropriation.

WEAPON SYSTEM COST ANALYSIS	S	A. Appre	Appropriation/Budget Activity	Activity	B. Weapon Model/Series		C. Manufacturer Name	D.
EXHIBIT (P-5)		OPN / BA	OPN / BA 3 - AVIATION SPT EQUIP	PT EQUIP	VARIOUS		VARIOUS	March 1996
OTHER AVIATION SUPPORT EQUIPMENT		NAVAIR/	NAVAIR/PEO(A)/PEO(T)/PEO(CU)					
	IDNT		FY 1995		FY 1996		FY 1997	
WEAPON SYSTEM COST ELEMENTS	CDE	QTY	TTL COST	QTY	TTL COST	QTY	TTL COST	
Total TAMPS PEO(T)			11,025		4,801		*	
S7030 PEO(A): Industrial Fac. Equip.	<u>.</u>		278		921		192	
Capital ADPE ** S7040 NALDA S7060 I/ETMS Total Capital ADPE:				47 VAR	5,067 2,163 7,230	45 VAR	4,747 2,945 7,692	
NAVAIR SUPPORT EQUIP S7011 NON-OIS FIELD S.E. S7020 OIS HDQTR S.E. S7021 OIS FIELD S.E.			36 3198 478		000		0 0 0	
TOTAL:			15,015		12,207	- 148 y	7,884	
* In FY 97 and beyond TAMPS is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS) Detailed justification for the TAMPS program is provided in the	n OPN B am is pr	.6.2 under] ovided in tl	P-1 line item 93, 7 ne OPN BA2 bach	AC A/C M	SSION PLANN	ING SYS (TAMPS)	
* *ADPE = Automated Data Processing Equipment	nent							
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	BUDGET PROCUREMENT	OCUREMEN	IT HISTORY.	AND PLANI	HISTORY AND PLANNING EXHIBIT (P-5A)	BIT (P-5A)			A. DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / B.A. 3 - AVIATION SUPPORT EQUIPMENT	ON / BUDGET A	CTIVITY VIATION SUPPOR		C. P-1 ITEM I OTHER AV	C. P-1 ITEM NOMENCLATURE OTHER AVIATION SUPPORT EQUIPMENT (43S7)	URE ORT EQUIPA	IENT (43S7)			
	CONTRACTOR/	CONTRACT			DATE OF			SPECS	SPEC	IF YES
LINE ITEM/	LOCATION	METHOD	CONTRACTED	AWD	FIRST	QTY	UNIT	AVAIL NOW?	REV	WHEN
FISCAL YEAR	City, State	&TYPE	BY	DATE	DELIVERY		COST	WHEN?	REQ'D?	AVAIL?
Captial ADPE S7040 - NALDA 1996 1997	FDSC **		NAVSUP NAVSUP	3/96 2/97	96/8	47	105.5	YES	O N	N/A N/A
Captial ADPE S7040: ** FDSC : Federal Data Systems Corporation.	0: ** FDSC : Fede	eral Data Systen	ns Corporation.							

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BUDGET ITEM	BUDGET ITEM JUSTIFICATION SHEET	SHEET				DATE	
							March 1996
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE:	ENCLATURE:		BLI: 427100
Other Procurement, Navy BA-3: Avi	- CO	: Equipment			Safety and Survivability Items		
	FY 1995	FY1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Millions)							
	\$0.0	\$9.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

and Marine Corps currently fund only a limited number of safety and survivability items on an adhoc basis funding was provided under this line item Congress provided funding in FY 1996 for the purchase of non-developmental life safety items which have been identified by the operational commands and the Department of the Navy's Office of Safety and Survivability as priorities for procurement. Since Congress recognized the Navy to finance the purchase of those critical items identified as priorities by the Fleet.

Specifically, funding will be used to procure Crash Survivability Flight Incident Recorders (CSFIR) for F/A-18 and AV-8B retrofit. The CSFIR will be a non-developmental item, commercial off-the-shelf procurement for a crash hardened recorder to be used in support of F/A-18 and AV-8B aircraft mishap and incident investigations. The effort will be managed by the Naval Air Systems Command, PMA-209 Air Combat Electronics Program Office.

P-1 SHOPPING LIST

ITEM NO. 142

EXHIBIT P-40

UNCLASSIFIED

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